Sonobuoy Liaison Working Group

Program Executive Office, Air ASW, Assault
and Special Mission (PEOASWASM)
programs (PMA-264)

17 - 18 May 2001

SLWG Agenda

(Gov Only until 1300)

- **17 May 2001**
  - **0800: Convene** (NSWCC)
  - **0815: Action Item Review** (NSWCC)
  - **0845: NCEA/NNOR** (N780E1B)
  - **0915: Program Brief** (PMA-264B)
  - **1000: Break**
  - **1030: Sonobuoy Management** (NALC)
  - **1130: Lunch**
  - **1300: NALC IM Brief** (NALC)
  - **1315: NALC ATR/NCEA Brief** (NALC)
  - **1330: ROLMS AIT** (NSWCC)
  - **1415: Break**
  - **1430: ROLMS Training** (NALC)
  - **1500: Logistics Team / Discussion** (NSWCC)
  - **1600: Adjourn**

SLWG Agenda
Open Session

- **18 May 2001**
  - **0830: Convene** (NSWCC)
  - **0845: Action Item Review** (NSWCC)
  - **0900: Logistics** (NSWCC)
  - **1000: Break**
  - **1030: CNE Brief (CANX'd)** (CNE)
  - **1100: PACFLT Brief** (CNAP)
  - **1130: New Sonobuoys** (NSWCC)
  - **1200: Break**
  - **1230: After Action Report** (NAWC PAX)
  - **1300: Action Item Discussion** (NSWCC)
  - **1330: Close**

SLWG Charter

- Chartered to coordinate and review technical, logistics, and inventory management issues regarding sonobuoys. Scope includes, but not limited to:

  - Inventory requirements and issues re: NNOR, NCER, NCEA;

  - Resolution of inventory management problems;

  - Review technical initiatives and ECP's to assess impact on Fleet operations and stockpiles;

  - Assess impact of sonobuoy changes to ASW aircraft, TSC, ASWM, trainers and logistics support; and

  - Recommend changes to production plans, inventory management processes, and logistics support which will increase the efficiency and effectiveness of the sonobuoy program.

SLWG Membership

- PMA-264   Program Management   Co-Chair
- N780E   OPNAV   Co-Chair
- NSWCC   Logistics   Member
- NALC   Inventory Management   Member
- CLF, CPF & CNE   CINC Interface   Members
- CNAL & CNAP   Fleet Air Interface   Members
- CPRFP & CPRFL   VP Fleet Interface   Members
- CHSWP & CHSWL   HS Fleet Interface   Members
- CHSLWL & CHSLWP   HSL Fleet Interface   Members
- + Others as invited (PM's, SPAWAR, etc)
- **Members Responsibilities:** Provide representation at the policy making level; present emergent concerns for action; research issues and prepare technical positions with supporting data; provide position of represented group during discussions and voting; review and provide inputs to meeting minutes.

Review of Action Items

Assistant Program Manager for Logistics
Crane Division, Naval Surface Warfare Center

Action Item Review

- ## ITEM 98-03: CAIMS / ATR PROCESS
    - Executive Committee: Errors in CAIMS directly affects procurement
        - Garbage in - Garbage out
        - ROLMS reporting difficulties
        - Little faith in CAIMS inventory numbers
        - Expenditures not reported
        - Need for World-Wide Inventory?
    - Assigned to PMA264, NALC, NSWCC
    - Status Spring 2001: **ONGOING**: Crane Sonobuoy Management Review Team chartered by CAIMS/ATR Working Subcommittee to reconcile Fleet activities in CAIMS and establish effective ROLMS reporting. Assist visits continue through FY 01. NALC developing end-user level ROLMS training. ROLMS AIT funded by PM for 'Major' end user sites, installed in FY 01.

Action Item Review

- ITEM 99-05: CAIMS INACCURATE FOR DDJC & DDNV
  - AMMOPAC/AMMOLANT: CAIMS does not reflect accurate account for the Defense Depots
    - AMMO's source requisitions at DD's due CAIMS shows material avail
    - DD's deny requisition with 'A6A' because material not avail
    - Obvious that an Out-of-Balance condition exists when this occurs
    - NALC action is required when this occurs
  - Assigned to NALC
  - Status: **CLOSED**: NALC: Visibility of stock at DDJC has been recovered. Ongoing effort to maintain visibility & improve processes.

Action Item Review

- ITEM 00-01: SONOBUOY PLR (BG3) REQUIREMENT
  - NSWCC: Periodic Lot Reports are required for sonobuoys at this time
    - PLR was once required due size of inventory vs usage
    - Required to indicate age stratification of stockpile
    - Stockpile has reduced to the point where the inventory is completely replaced every 2 - 3 years, making PLR unneeded
    - Rescind PLR requirement for sonobuoys
  - Assigned to N/A.
  - Status: **OPEN**: NSWCC: The need for PLR (BG3) for sonobuoys has been negated by the shrinking inventory. We use the buoys at a rate that insures most types will be used prior to going over age. NSWCC suggests that PLR requirement be dropped. Discussion.
  - Closing Status Spring 2001: **CLOSED**. Discussion at last SLWG indicated PLR still important in view of shrinking inventory. PLR (BG3) to continue.

Action Item Review

- ITEM 99-09: HOST LEVEL REPORTING
  - CNRFL: Feasibility of Weapons Departments providing host-level reporting for attached squadrons at Naval Air Stations
    - Host-level reporting would reduce number of reporters
    - Fewer reporters = fewer chances for ATR mistakes
    - Weapons Departments have more experience in ROLMS/ATR reporting & had onsite install and training by ROLMS program
    - Determine feasibility of establishing host-level reporting for Squadrons and Wings at applicable Air Stations
  - Assigned to CPRFL, CNAL
  - Status Spring 2001:   **ONGOING**: NSWCC: Establishment of host-level reporting is underway. Status to be discussed at next session.

Action Item Review

- ITEMS 99-02, 99-11, & 99-12: (Consolidated)

  ROLMS TRAINING SHORTFALLS

  – Membership: ROLMS training insufficient to meet Fleet requirements
    - NALC only fully supports ROLMS at major sites (e.g., WEPSTA, Weps Depts)
    - Small end-users are not supported other than ROLMS trouble desk & ROLMS CD tutorial
    - Existing Ammo Management School ROLMS curriculum inadequate
    - Establish effective ROLMS training!
  – Assigned to NALC
  – Status: **ONGOING**: NALC: Certain ROLMS training initiatives are underway. NALC to brief status at Fall 2001 session. NSWCC: ROLMS training conducted at sites visited by Sonobuoy Management Review Team, ongoing, experience with ROLMS 'Mobile Training Help' files good.

Action Item Review

- ITEM 99-13: ROLMS AIT SYSTEM
  - PMA-264B: What is cost/configuration of ROLMS AIT system for sonobuoy sites; what are requirements?
    - How many sites need a ROLMS AIT system
    - What is configuration, cost of system
    - Feasibility of funding procurement
  - Assigned to NSWCC
  - Status: **ONGOING**: PMA-264 funded the procurement of the ROLMS AIT system (e.g., scanners, software, bar code printers, etc) for distribution to certain end-user sonobuoy sites not supported by the NALC ROLMS office. NSWCC is installing in FY01. To be briefed at Fall 2001 session.

Action Item Review

- ITEM 00-02: LOAD PLAN SCRUB
  - CNAL: Current total aggregate shore/ship load plans for each sonobuoy type do not match current total Navy Non Nuclear Ordnance Requirements (NNOR). Total logistic load plans should equal total Navy requirements.
  - Assigned to CINC's, TYCOM's
  - Status: **OPEN**: Discussion of this issue was held at a meeting of the Executive Committee of the SLWG in November 2000 at NSWC Crane.
  - Closing Status: **ONGOING**: To be discussed at the Fall 2001 session of the SLWG.

New Action Items
Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-01: (See the Secure Server Version)

- ITEM 01-02: EMATT NCEA
  - USS HAWES 290815Z SEP 00: NCEA of 2 inadequate, require NCEA of 5.
    - Unit proficiency & exercises require larger NCEA for EMATT
  - Assigned to N/A
  - Status: **OPEN**: NCEA changes must be requested through COC. USS HAWES should submit NCEA requirement to COMDESRON 22
  - Closing Status: **CLOSED**

New Action Items
Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-03: SONOBUOY EXTENSIONS
  - USS COLE 291400Z SEP 00: Service life of several buoys extended in past. Concern that buoys getting too old & may not function reliably.
    - Continued testing required to insure buoys reliable; results to Fleet.
  - Assigned to: NSWCC, PMA
  - Status: Performance data for sonobuoy NALC's is tracked by NSWCC. Extensions are granted based on performance data & Fleet reported failures. Fleet report of significant failure rates would result in reevaluation of extensions. Extensions are valid based on existing data.
  - Closing Status: **CLOSED**

New Action Items
Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-04: SHIPFILL / NCEA PROCESS
  - COMDESRON 31 081300Z OCT 00: The current process by which NCEA and Sonobuoy (Shipfill) Allowances are prescribed for Exercises (I.e., FLEETEX, RIMPAC, etc.) is inefficient.
    - DESRON provides buoy requirements to HSL & Ships. Ships & HSL request buoy augment from CHSLWP & requisitions from AMMOPAC.
    - RECOMMEND: CHSLWP and AMMOPAC publish a 'Standard NCEA Augment Training Sonobuoy Allocation' based on historical usage. Exercise participants will use the data for Sonobuoy Requirement Estimates & NCEA Augment Requests (if necessary).
  - Assigned to CPF
  - Status: **OPEN**:
  - Closing Status: **CLOSED** per CPF & discussion. This is a TYCOM/Ship problem if the ship does not requisition sufficient stock to support ops.

CLF N80 Comments:
(See the Secure Server Version)

New Action Items

Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-05: (See the Secure Server Version)

CLF N80 Comments:
(See the Secure Server Version)

New Action Items
Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-06: ROLMS Tech Data Files
  - NSWC CRANE: ROLMS TECH DATA Update Files maintained on NALC Web Site routinely fail to function when attempting to update ROLMS
    - SALTS no longer posts the TECH DATA files; NALC now posts the files
    - NALC-maintained files routinely fail to work (corrupt?)
    - Contacting NALC, there appears to be no QA on the files & instructions for updating ROLMS on Web Site are incorrect and state 12 steps to do what can be done in 3 steps (e.g., save a 14Meg file to floppy disk?)
    - NALC has no ROLMS system to test posted files on. No instructions on NALC web site to indicate how to 'reset' ROLMS if upload fails.
  - Assigned to: NALC
  - Status: : **OPEN**
  - Closing Status: **CLOSED**: Referred to NSWC ROLMS office by NALC. Files will be tested when posted in future. ROLMS office will review process & instructions on NALC web site.

New Action Items
Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-07: PC FOR PATRON SIG ROLMS
  - NSWC CRANE: The PC and Printer being used by PATRON Sigonella for ROLMS reporting are inadequate
    - The PC and printer are living on borrowed time and are 'barely' adequate for ROLMS reporting.
    - It is only a matter of time until the PC dies & the printer cannot generate 1348's
    - ROLMS functionality is restricted on current PC
    - PATRON Sigonella makes most of the sonobuoy expenditures in the CNE AOR
  - Assigned to: CNE/CNAL/CPRFL
  - Status: : **OPEN**
  - Closing Status: **ONGOING**: CLF (Mr. McKracherne) MFST representative stated that he would insure CTG 67.2 receives a good PC and printer in support of ROLMS operations. To be briefed at next session.

New Action Items
Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-08: LOAD PLAN/SHIPFILL USE FOR NCEA
  - NSWC CRANE: Sonobuoys filling Load Plan and/or Shipfill Requirements should be used for NCEA expenditure
    - Current philosophy of Fleet Managers seems to be that Load Plan/Shipfill buoys cannot be used to support NCEA requirements
    - Results in 'nickel & dime' requisitions by remote sites
    - Load Plan/Shipfill should be used for NCEA per NAVSUP P-724 & NALC
    - Pre-positioning of assets could be precluded if Load Plan filled & used
    - HSL Dets should draw from Shipfill for training, replenish as needed
    - Projected inventory levels will not support Load Plan/Shipfill + NCEA planning
  - Assigned to: CLF/CPF/CNE/NALC
  - Status: : **OPEN**
  - Closing Status: **CLOSED**: Discussion resulted in no action.

Excerpt from NAVSUP P-724

TABLE 5.3.1
LOAD PLAN FACTORS

FACTOR	NOMENCLATURE	DEFINITION
1	Global Naval Ordnance Positioning Plan (GNOPP)	The Fleet positioning plan is the largest input to the load plan. It considers constrained OPLAN requirements for dual Major Theater Wars (MTWs), unconstrained shipfill requirements and allocations for Training, Testing, and Current Operational Requirements (TTCOR). This factor also includes requirements for stores release Cartridge Actuated Devices/Propellant Actuated Devices (CADs/PADs). Requirements are "capped" by available assets to formulate the Positioning Quantity (PQ). Ordnance for those ships normally afloat in peacetime is then deducted from the PQ. The remainder, along with requirements from SPECWAR, USMC V (W) and USCG, is the quantity planned for ashore positioning/storage.
2	Maintenance and Production	Ammunition end items, components, and explosives required to support twelve months' funded maintenance workload; and/or twelve months of production load, assembly and pack requirements.
3	Other Services	U.S. Army and U.S. Air Force active and reserve ordnance requirements may only be accommodated

New Action Items
Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-09: NALC ATR TECH SUPPORT
  - NSWC CRANE: Since NALC's reorganization ATR Technician support has suffered, suggest dedicated ATR Technician support be bolstered
    - ATR Technician support limited by personnel & experience level; only four (?) remain & they are subject to other tasking (I.e., ESI's, etc)
    - Manual intervention suffers (ex., USS Truman <deployed> on suspense for 14 days/> 60 ATR's with no response by NALC ATR Techs to several phone requests. In this example the errors show on the Battle Group Report Card.)
    - Tech's closing Documents with no remarks in file to indicate why/who
    - ATR Discrepancy Notification messages still refer Fleet to old Tech Personnel
    - Crane Logistics Office receives *many* calls from Fleet activities that should ideally be handled by NALC Techs
  - Assigned to: NALC
  - Status: : **OPEN**
  - Closing Status: **CLOSED**: Fleet support re ATR's has been assigned to AMMO's by NALC.

New Action Items

Submitted by Activities Prior to Spring 2001 Session

- ITEM 01-10: (See the Secure Server Version).

New Action Items
Submitted by Representatives at the Spring 2001 Session

- ITEM 01-11: SONOBUOYS TO ORDNANCE VICE SUPPLY
  - NALC: Evaluate & make recommendations for moving sonobuoys from DLA management to Ordnance/Weapons management.
    - Management of sonobuoys by DLA ineffective
    - Management as an ordnance item in the Ordnance Community preferable
    - Form an IPT to evaluate and make recommendation to Ordnance Community for transition of DLA management to Ordnance Management of 8U & 2E sonobuoys
  - Assigned to: SLWG Executive Committee
  - Status: : **OPEN**
  - Closing Status: **ONGOING**: APML will form IPT to evaluate Action Item suggestion and make recommendation to controlling authority. Tentative meeting at NALC Mechanicsburg for June/July depending on coordination.

New Action Items
Submitted by Representatives at the Spring 2001 Session

- ITEM 01-12: NCEA LINE FOR SSQ-53F FOR FY02 & FY03
  - PMA264: Establish an allocation for the SSQ-53F during transition from SSQ-57B to SSQ-53F.
    - Allocation required to insure FIFO for DIFAR assets during transition from SSQ-57B to SSQ-53F
  - Assigned to: OPNAV
  - Status: : **OPEN**
  - Closing Status: **ONGOING**: PMA-264B will coordinate with OPNAV to insure an allocation for SSQ-53F is established, independent of SSQ-53 NCEA line for FY02 & FY03.

New Action Items
Submitted by Representatives at the Spring 2001 Session

- ITEM 01-13: EXPENDITURE REPORTING TO INDICATE OPERATIONAL vs TRAINING EXPENDITURES
  - CNAP: Reporting of sonobuoy expenditures should be coded as 'Operational' (Code H) and 'Training' (Code F) to differentiate between operationally required expenditures (contingency) vs training expenditures
    - Expenditures are not reported the same way Fleet-wide
    - No record of 'operational' expenditures vs 'training' expenditures
    - Historical record of operational vs training expenditures would facilitate correct NCEA planning and provide supporting info to procurement process
  - Assigned to: CLF/CPF/CNE/TYCOM's/NSWCC
  - Status: : **OPEN**
  - Closing Status: **ONGOING**: Coordinated policy and message needs to be developed/transmitted by CINC's to sonobuoy reporters that requires reporting as operational (H) and training (F) expenditures. Discussion between CINC's/TYCOM's and NSWCC to result in guidance.

New Action Items
Submitted by Representatives at the Spring 2001 Session

- ITEM 01-14: MK25 & MK58 NCEA
  - SLWG: Discrepancy between SLWG briefed MK25/MK58 NCEA and that briefed at the NCEA Conference
    - Question as to correct NCEA for MK25 & MK58
  - Assigned to: PMA-264
  - Status: : **OPEN**
  - Closing Status: **ONGOING**: PMA-264B will liaison with OPNAV and disseminate correct NCEA for MK25 & MK58

New Action Items

Submitted by Representatives at the Spring 2001 Session

- ITEM 01-15: EXPIRATION OF SSQ-57B IN REMOTE LOCATIONS
  - CTG 84.2: Some SSQ-57B's are located in remote sites. They cannot be used prior to expiration of Jan02. Request certain assets be extended beyond Jan02 so that they can be used instead of returned for demil.
    - APML will entertain 'case basis' extensions for SSQ-57B assets that cannot be easily returned for demil after Jan02.
  - Assigned to: APML
  - Status: : **CLOSED**
  - Closing Status: **CLOSED**: Fleet activities can request a 'case basis' extension for SSQ-57B assets at remote sites. APML will evaluate requests and grant extensions when feasible.

FY02 Sonobuoy NCEA / NNOR

**Note: This brief
presented by PMA-264B.**

Chief of Naval Operations

ASW Sensors Requirements

(N780E1B)

17 - 18 May 2001

Outline

- Overview

- Sonobuoy NCEA

- Questions

Current NCEA

- Training and readiness matrix and "bottom-up review" accounts for lesser readiness reporting during Inter-deployment Training Cycle (IDTC). However....

- Qualifications are achieved during IDTC (tiered readiness) to achieve C2 at deployment
  - (See the Secure Server Version)

- Assumes 100% qualification success rate and does not count:
  - Real world prosecutions
  - Environmental mapping
  - Beartrap
  - Changes in crew during IDTC

* CNAL MSG 141503Z Mar 00

Sonobuoy Totals

(See the Secure Server Version)

- **NCEA based upon maintaining deployable C2 readiness**

- **Assumes reduced inventory levels are acceptable**

- **SSQ-53 Engineering Change Proposal (ECP) may eliminate SSQ-57 by mid-FY02**

- **Current inventory of SSQ-77 end of service in FY03/-04**

- **FY-03 and out-year totals <u>WILL</u> be changed based upon results of current POM**

DIFAR, LOFAR, VLAD

(See the Secure Server Version)

BT, DICASS, EER

(See the Secure Server Version)

DLC and SUS

(See the Secure Server Version)

Marine Location Markers

(See the Secure Server Version)

Peripheral Components

(See the Secure Server Version)

Air ASW Systems Program Status

PMA-264B

OPNAV N780E1B

Air ASW Sensor Requirements

**Sensor Requirements are Derived from a Mix
of Mission Needs and Platform Requirements**

(See the Secure Server Version)

PMA-264 Charter

- **Provide operating forces with fully developed, supportable and reliable AIR ASW sensor systems**

- **Meet commonality and adaptability requirements across multiple platforms**

AIR ASW Systems

- Production Sonobuoys

- R&D

  - Near Term

  - Transition Potential

- Common Integration Programs

Production Sonobuoys

- Product Roadmap
- Training Support
- Logistics
- Funding Issues

Sonobuoy Sensor Roadmap

SSQ-36 (BT) → **TAMDA**

SSQ-53 (DIFAR)

SSQ-57 (LOFAR) — SSQ53F → **SSQ-53 ( )**

SSQ-77 (VLAD) — SSQ-77C → **SSQ-77 ( )**

SSQ-101 (ADAR) → **SSQ-101( )**

SSQ-62 (DICASS)
Sonar A
Sonar B
Sonar C
Sonar D

SSQ-62E → **SWALAS**

SSQ-110 (EER) — SSQ-110A — SSQ-110B → **SSQ-110 ( )**

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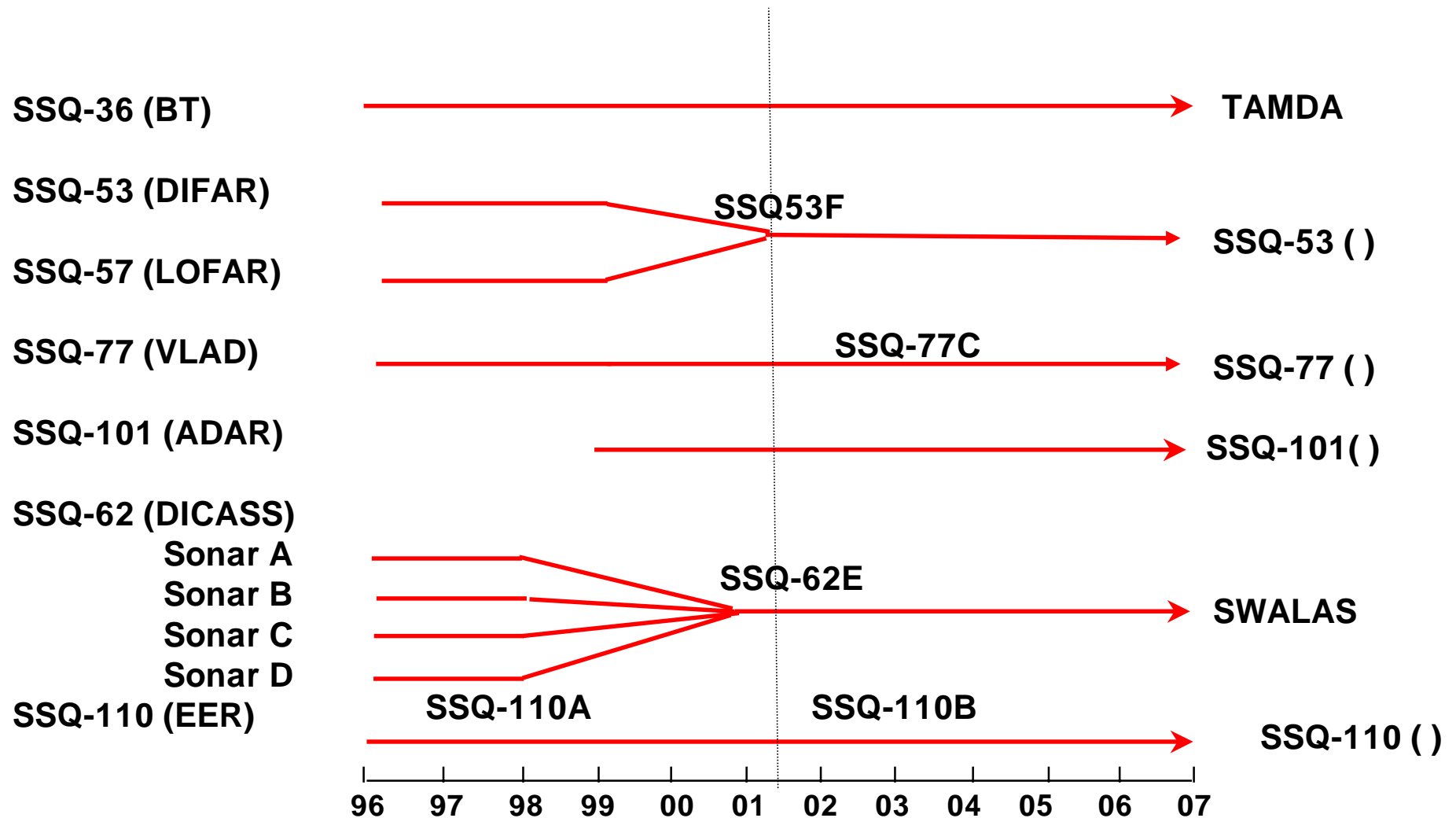
Product Improvements

- ## SSQ-53F ECP
  - Combines SSQ-53E w/SSQ-57
  - First production Lots in Summer 01

- ## SSQ-62E ECP
  - 4 sonic channels in 1 buoy (1 NIIN)
  - Production deliveries ongoing

- ## SSQ-77C ECP
  - **(See the Secure Server Version)**
  - First deliveries FY03

Product Improvements

- ## SSQ-101
  - IEER Receiver
  - EMD complete
  - First production lots delivered

- ## SSQ-110B ECP
  - ESAF multi-point ignition
  - First deliveries FY04

Training Support

- **NAWC Fleet Support Team**
  - Training
    - New product technical support
    - Mission Planning
    - Post mission analysis
  - Exercise Support
  - Team Lead
    - NAWC 4.5.5

Logistics Support

- **NSWC Crane CFA, APML**
  - Technical Manuals
    - 28 SSQ-500-1/4 Update by end CY01
  - Inventory Management Support
    - Inventory reconciliation
    - ROLMS AIT installation and training

- **Logistics Issues**
  - Inventory accuracy
  - Demilitarization rates
  - NNOR vs Global Load plans

Production Sonobuoy Funding

Resource Sponsor: <u>N780E1B</u>
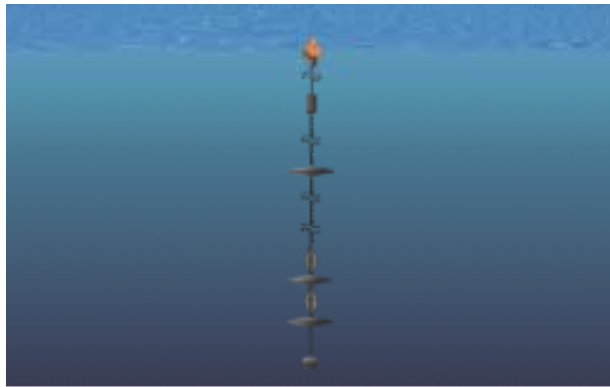
Artists Conception of an AN/SSQ-53 Directional Frequency and Recording (DIFAR) Sonobuoy

- **Environmental**
  - Bathythermograph
  - Ambient Noise
- **Passive**
  - Narrowband
  - Broadband
- **Active**
  - Coherent
  - Incoherent

<u>Program Description</u>

Annual procurement of air deployed acoustic sensors used by all ASW aircraft.

Contractor Data

Prime Contractor(s)
Contractor A   Sparton Electronics
Contractor B   USSI, Inc.*
Contractor C   Hermes Electronics*

*USSI and Hermes divisions of Ultra Electronics, UK

Fiscal Year	00				01				02				03				04				05				06				07		Total
Quarter	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	

(See the Secure Server Version)

POM 02 Inventory Impacts

(See the Secure Server Version)

R&D Programs

- **Search Systems**
  - IEER Baseline
    - P3I
      - AEER
        - » Incoherent Source
        - » Coherent Source
      - NTS
  - TAMDA
  - Potential Transition Technology
    - LWSS

Improved Extended Echo Ranging (IEER)

(See the Secure Server Version)

Advanced Extended Echo Ranging (AEER)
Incoherent Source

(See the Secure Server Version)

Advanced Extended Echo Ranging (AEER)
Coherent Source

(See the Secure Server Version)

Non-Traditional Scattering (NTS)

(See the Secure Server Version)

Tactical Acoustic Measurement and Decision Aid (TAMDA)

(See the Secure Server Version)

Light Weight Search System (LWSS)

(See the Secure Server Version)

R&D Programs

- Localization and Attack Systems
  - SWALAS
- Potential Transition Technologies
  - IR Mode W
  - Claymore Marine
- HFSD

Shallow Water ASW Localization and Attack System (SWALAS)

(See the Secure Server Version)

IR Mode W

(See the Secure Server Version)

Claymore Marine MDD

(See the Secure Server Version)

Hydrostatic Sensor Firing Device (HSFD) DSU-52/B

(See the Secure Server Version)

Common Integration Programs

- BEARTRAP

- GASS

- Potential Transition
  - CCPI
  - GPS

CNO Project K416 Beartrap

(See the Secure Server Version)

Generic Acoustic Stimulation System (GASS)
Program Description (ACAT IV M)

(See the Secure Server Version)

COTS Common Processing Initiative

- Purpose: establish a process to enable introduction of Airborne USW sensor processing capabilities for Fleet COTS processors

- Objective: develop a hardware-independent software suite to enable commonality, tech insertion/refresh, and portability

- Cooperative effort by PMA's-264, -290, & -299, PMS-411, and PMW-157 -- Common Airborne USW Sensors S/W (CAUSS)

- Merging NAVAIR, NAVSEA, and SPAWAR requirements

- Modeling our process after NAVSEA's Advanced Processing Build (APB) process and Peer Review Process (PRP)
  - Peer review
  - Build-test-build

GPS in Sonobuoys

(See the Secure Server Version)

GPS in Sonobuoys

- Prototype Development
  - Funded by FY-98 Congressional Plus-up

  - Full Engine SPS approach (not policy compliant)

- Waiver Investigation – On-hold

- Low-Cost Sonobuoy Geographic Position Locator SBIR
  - Allows for GPS and non-GPS solutions

  - 14 proposals received / 2 selected

Program Priorities

1 Support the Fleet

- OPN Production sonobuoys
- R&D 6.3 Beartrap Data Collection & Analysis

2 R&D 6.4 programs

- AEER (Advanced Extended Echo Ranging – Explosive Source)
- GASS (Generic Acoustic Stimulation System)
- IR Mode W (Infra-Red Mode W)
- LWSS (Light Weight Search System)
- AEER (Advanced Extended Echo Ranging – Electronic Source)

3 R&D 6.3 programs

- Beartrap Advanced Collection Technologies
- SWALAS (Shallow Water ASW Localization & Attack System)
- NTS (Non-Traditional Scattering)
- TAMDA (Tactical Acoustic Measurement & Decision Aid)

Sonobuoy Management

Naval Ammunition Logistics Center
(NALC) Mechanicsburg, PA

Naval Ammunition Logistics Center

Sonobuoy

SLWG

Commanding Officer

Today's Discussion

✔ *Ordnance Enterprise Data Integration*

✔ *Demo*

✔ *Sonobuoy Management Proposal*

Ordnance Enterprise Data Integration

Overarching Framework

Prevail in Combat

Dominate Battle-Space

Ordnance Logistics

Ordnance Logistics Knowledge Mastery

Ordnance Logistics Systems

NCW

WEN

NMCI

Ordnance Logistics Strategy

Ordnance Logistics Systems Strategy

IT/eBusiness, Architecture, Connectivity, AIT, …
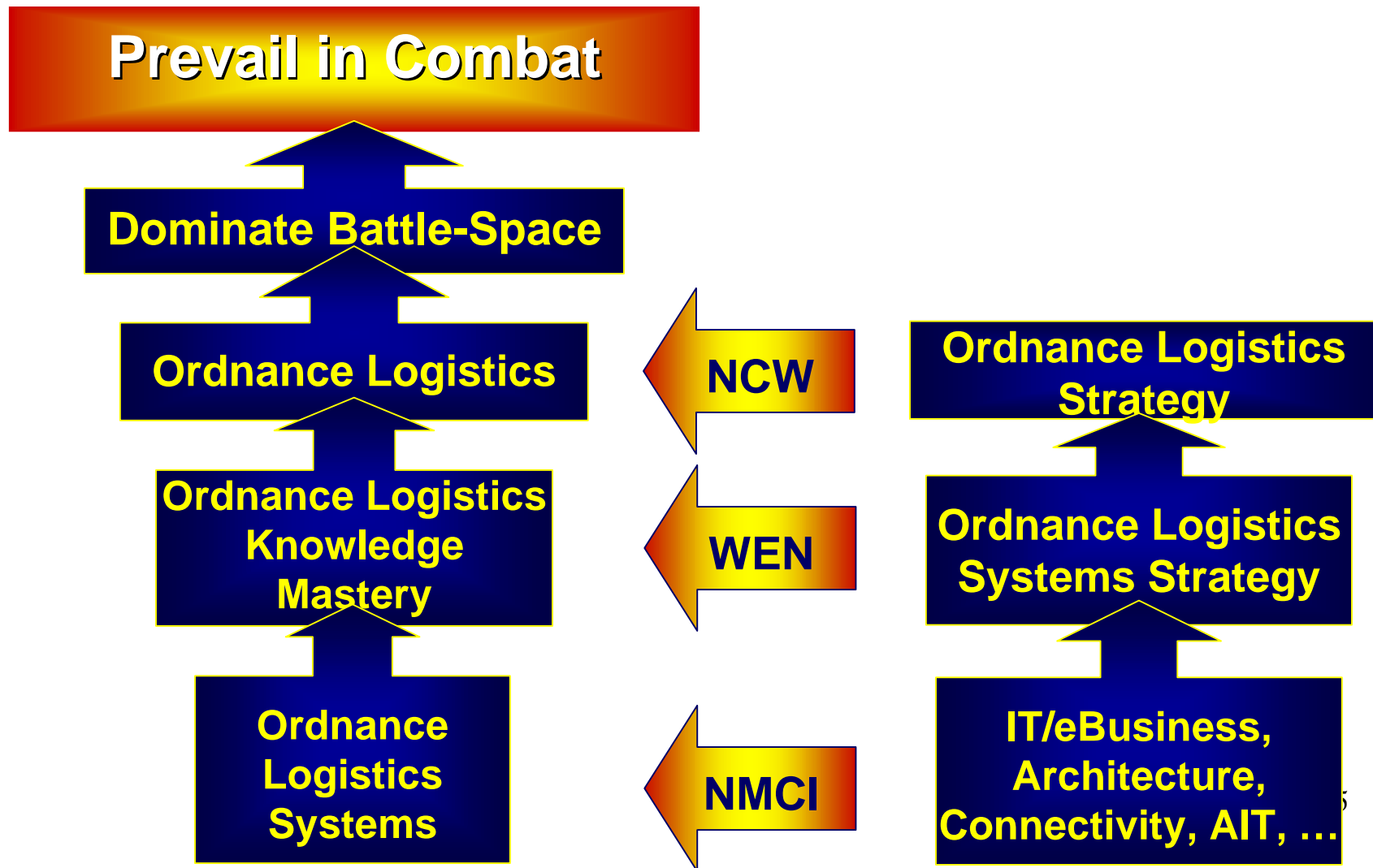
Ordnance Logistics Strategy

Deterrence
Swift & Decisive Victory
Minimum Loss of Life

Provide War Fighters

⭐ **fully integrated**
⭐ **rationalized**
⭐ **effective**
⭐ **efficient**
transparent

Ordnance Logistics Support

WAR FIGHTER
Sailor **and** *Marine*

NWS/NAB/NAS/CLWP/CTF 63, ...

CINC/TYCOM/ISSIC

NALC

PEOs/PMs

SECNAV
OPNAV
CMC

Joint Staff

NCA

76
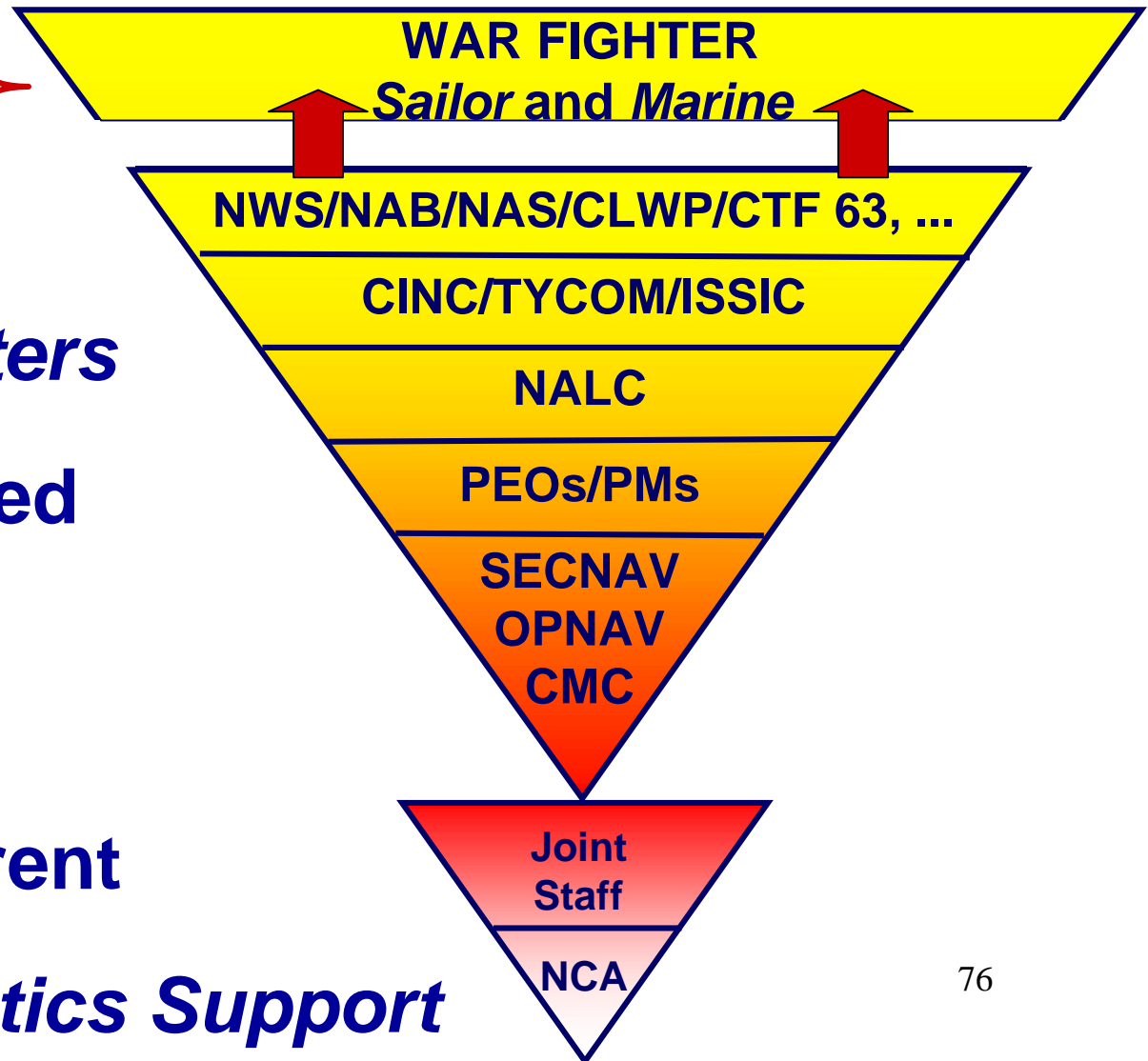
Ordnance Logistics IT Strategy

Deliver a single, seamless, distributed and fully integrated Information System providing controlled global access to the data, metrics, reports and decision support tools required to achieve ordnance stockpile knowledge mastery

WAR FIGHTER
Sailor and *Marine*

NWS/NAB/NAS/CLWP/CTF 63, ...

CINC/TYCOM/ISSIC

NALC

PEOs/PMs

SECNAV
OPNAV
CMC

Joint Staff

NCA
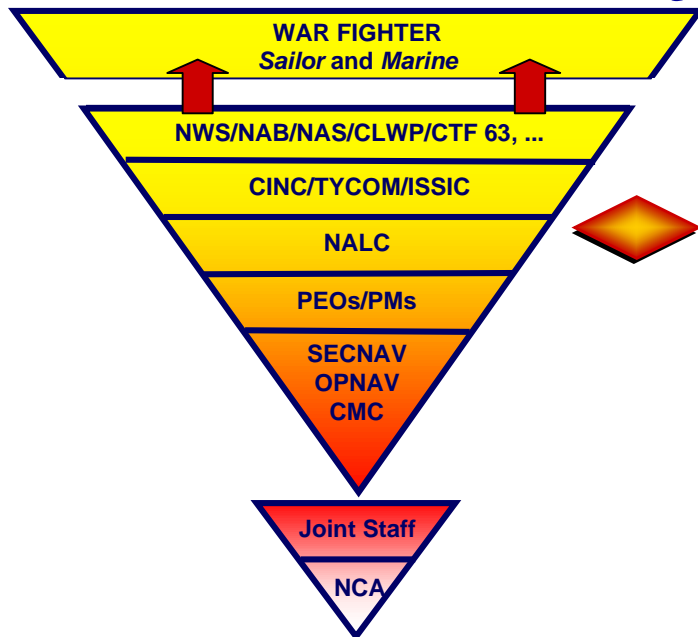
We are <u>leading</u> ordnance logistics management <u>transformation</u> by moving systems to the future <u>now</u>

Ordnance Logistics   *IT Strategy*

- *Transform Architecture*

  - ◆ **Integrate**
    - Applications
    - Data bases

  ✔

  - ◆ **Link to external applications/data**

  - ◆ **WEN compliant… via SIPRNet portal**

Naval Ordnance Systems

Pre-1999

Joint Standard System	**Defense Transportation & Tracking System (DTTS)**	**Demil & Disposal (ADIMS)**	**Wholesale Inventory Management (CAIMS)**	**TOMAHAWK Inventory Management (TAIMS)**
Joint Asset Visibility	**Asset Visibility**	**Financial, Piece Part & Maint. Models (Nautilus)**	**Ordnance Assessment Portfolio (OAP)**	**Ordnance Data Warehouse (ODW)**
PM/Fleet Contractor Systems	**Retail Inventory Management (ROLMS)**	**Receive, Stow Segregate & Issue (RSS&I)**	**Service Wide Transportation (SWT)**	**Global Naval Ordnance Positioning Plan (GNOPP)**
PM/Fleet Organic Systems				

Archaic, Stand-Alone, Proprietary Limited Connectivity

Naval Ordnance Systems

In production today

PM/Fleet Contractor Systems	Weapons Stations	Inventory Managers	Sailors/ Marines	Program Managers	OPNAV/CMC CINC Staff

Presentation

	Dedicated line	Web-site	Direct dial-up

TOMAHAWK Engineering	DTTS	ADIMS	CAIMS Reports	TOMAHAWK	Asset Visibility	Nautilus
JTAV	OAP	ODW	ROLMS	RSS&I	SWT	GNOPP
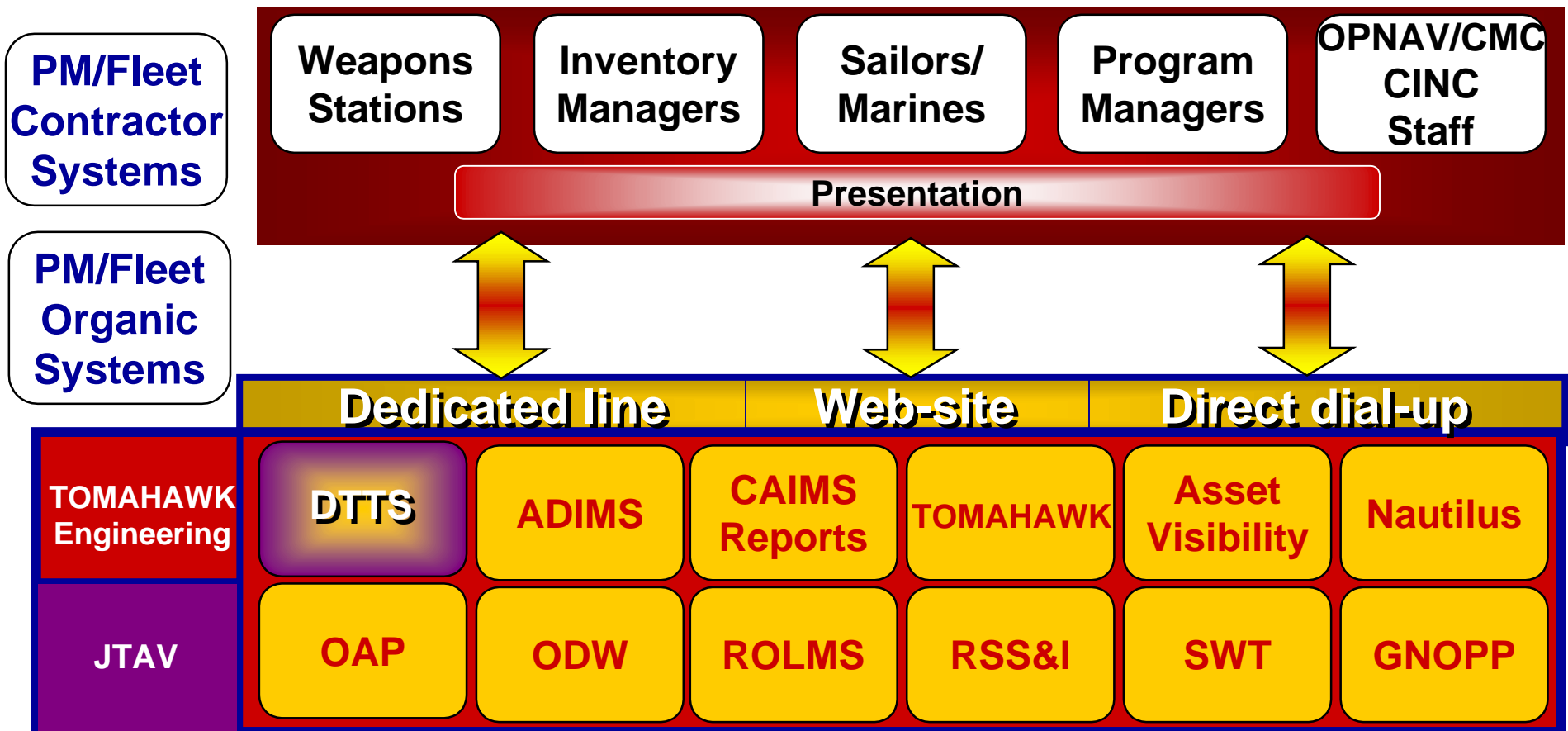
Under OIS umbrella
Web-Accessible, Internet/WEN Compliant

Naval Ordnance Systems

Dec '02 ~ Dec '03

N I P R N e t	**Weapons Stations** — **Inventory Managers** — **Sailors/ Marines** — **Program Managers** — **OPNAV/CMC CINC Staff**

Presentation: Web-Client, AIT, PDA

Web Based Portal

High Assurance Guard

External Applications

TOMAHAWK Engineering — Surface Missile

TRMS — Joint Visibility

APPLICATION LAYER

S I P R N e t

Web Based Connectivity

External Data

LOGICALLY INTEGRATED, PHYSICALLY DISTRIBUTED

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Fully WEN Compliant!

Unfinished Business

◆ *Systems*

➡ **Single up Data Bases**
➡ **Single up Applications**
➡ **Single up Decision Support Tools**

- *Data Integrity*
- *Speed*
- *Cost*

➡ **Link Data Bases**
➡ **Link Applications**
➡ **Link Decision Support Tools**

- *Content ownership*
- *Unique by nature*

Unfinished Business

◆ *Processes, approaches, policy, ...*

➡ **Overlaps**

➡ **Gaps**

➡ **Most efficient _and_ effective provider**

◆ *Data, Metrics, Reports, Decision Support Tools*

➡ **Single up logistics _community_ yardsticks**

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ENTERPRISE FUSION

Logically Integrated, Physically Distributed

Interfacing Joint/DoD Programs
AUTODIN
DAAS
DAMES
SALTS
UMMIPS
JAMSS
JTAV
DMS
DSS

Interfacing Army/Air Force Programs
CCSS
SDS

Interfacing Navy Programs
TOMIS
SMEPS
MAPA-C
SMSDMS

Interfacing USMC Programs
ESTM
MAARS
MAGDSS
MAGTF MDL
MAGTF MDSS II

GNOPP
Load Plans
NNOR
FMS DB
CAIMS
ODW
TAIMS
ADIMS
NCEA DB
OAV DB
NAR DB
SLIT DB
OAP DB
DTTS
ROLMS
SWT DB
AMAR DB
Nautilus
AIT
RSS&I

Global Positioning
Foreign
Mgmt/
Data Warehouse
Demil/ Disposal
Non-Combat Stockpile Mgmt
Asset Visibility
Reclassification
Satellite Tracking
Inventory Projections
Transportation Budgeting
Retail Systems
PM Budget Support
Workload Planning
Bar Coding

Web-Accessible Systems

WEN Compliant Systems
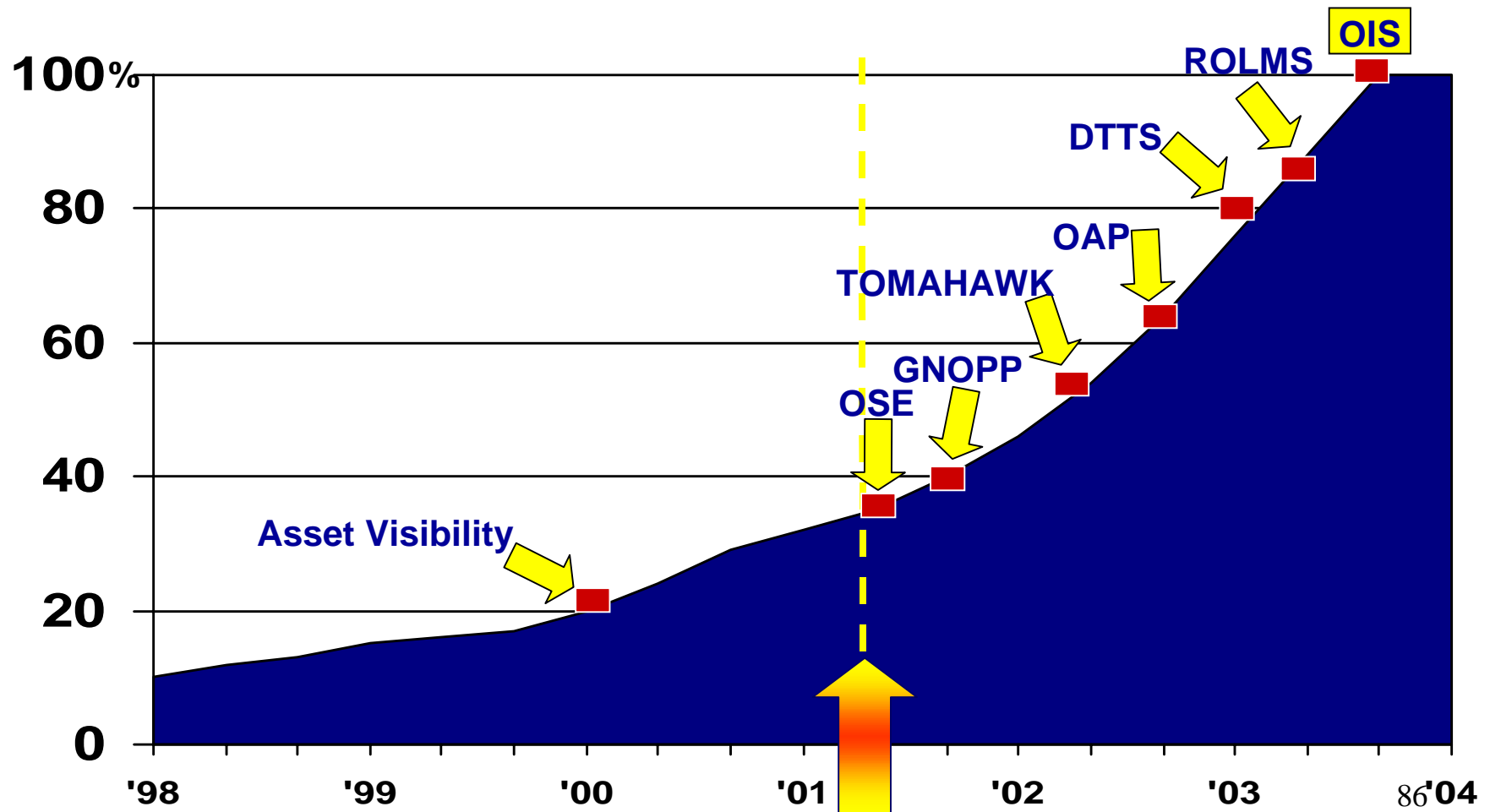
It's More Than Technology!

Corporate Culture and Processes (vertical axis)

Mainframe → PC → Client/Server → Web-Centric (horizontal axis)

- Failed Organization Transformation
- Failed Technology Transformation
- Vertical Integration
- Pseudo Integration
- Self Synchronization
- Space Awareness

87
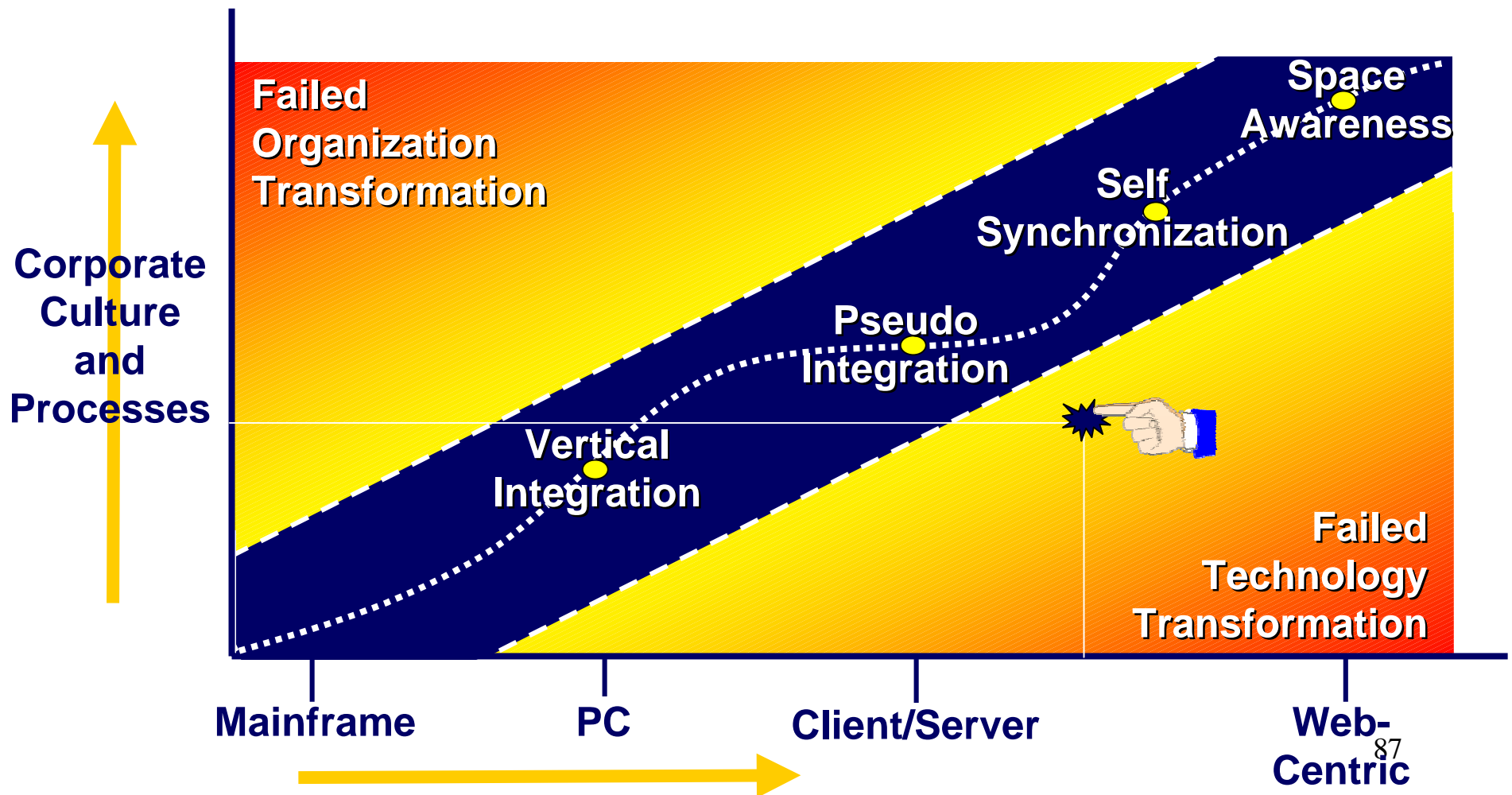
Knowledge Mastery

Ordnance Logistics
Knowledge Mastery

We will provide

✔ **Every authorized user access to real-complete, accurate, universally accepted time. and properly formatted stockpile management information, …**

✔ *Via a robust portfolio of*

◆ **Data**
◆ **Metrics**
◆ **Reports**
◆ **Data manipulation tool sets**

Embedded in our
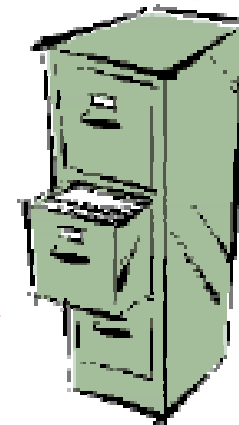
✔ *Single integrated electronic "filing cabinet"*

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Sonobuoy Management

Ordnance? ,… Supply?

Both?

The Issue

◆ *Split Management*

Physical Distribution at Defense Depots/ FISCs

Data in Ordnance Information System (OIS)

, … mostly
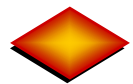
◆ *We can <u>survive</u>*

◆ *We can't get it right*

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Options
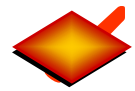
Status Quo
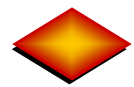
All responsibility to Supply
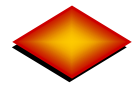
All responsibility to Ordnance

All are problematic

Only two can provide efficient & effective Warfighter support

Recommendation

★ *Commit to transition Sonobuoy management 100% to ordnance at earliest opportunity*

★ *SLWG chart IPT to execute*

★ *Engage NORIP horsepower*

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Demo

✔ *Prevail in Combat*

SONOBUOY POINT PAPER

Issue

Sonobuoy management responsibility has, historically, moved back and forth between the supply and ordnance communities, … and now straddles both. Bifurcation of management responsibility will, … if not resolved, … prevent Navy from achieving efficient and effective sonobuoy management and the data integrity necessary for proper execution of our stewardship responsibilities.

Discussion

Physical handling of *most* wholesale stocks is conducted by "supply", ... typically the Regional Defense Depot (DD), but also Fleet and Industrial Supply Centers (FISCs).   Global inventory and data management, however, are ordnance community responsibilities, … NALC Mechanicsburg and the AMMOs. Introduction of the AN/SSQ110 aggravated this split management situation, in that the ordnance community (a Weapons Station, typically) physically manages this one type of explosive buoy while supply organizations (DDs and FISCs) physically manage all remaining types of buoys.

Reporting of buoys is a further challenge. For example, the partnering arrangement at FISC San Diego requires referrals be submitted to the FISC for materiel stored at NAS North Island vice the DD, which is the primary physical manager of buoys on the West Coast. Exception processing causes many data integrity problems that must be worked by managers throughout the ordnance community.

Additionally, experience in the fleet has historically been that inert buoys are not held to the same accountability standards as explosive buoys, ...e.g. not considered real ordnance. Again, this leads to numerous inventory accuracy problems with the many inert buoys in the system.

The community has three basic options:
- Status quo – ensures sub-optimal management
- All responsibility to the supply community – ordnance out of the business
- All responsibility to the ordnance community – supply out of the business

Both of the last two options have a number of roadblocks that must be overcome to succeed. However, it is in the war fighter's best interest to have an effective, efficient and responsive sonobuoy logistics pipeline. It is NALC's position that the ordnance community is best positioned to accept full responsibility for sonobuoy management.

Recommendation

Commit to transitioning sonobuoy management 100% to the ordnance community at the earliest opportunity, … recognizing there will be financial, physical, process and political hurdles to overcome. Form an IPT to develop a POA&M and then oversee its execution.

CAIMS Brief

Naval Ammunition Logistics Center
(NALC) Mechanicsburg, PA

Sonobuoy Item Manager
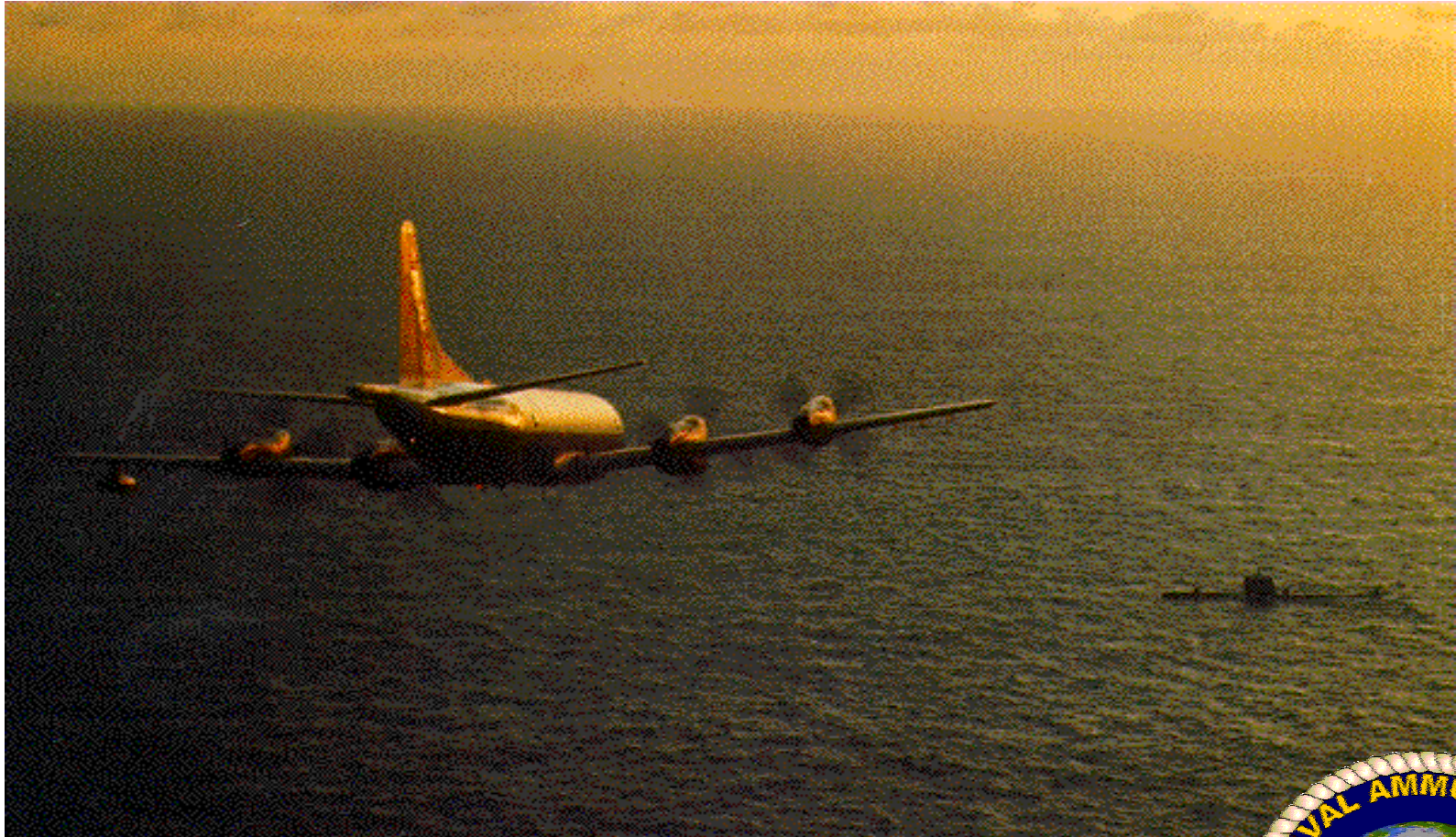
NAVAMMOLOGCEN

Sonobuoy INVENTORY STATUS as Reported In CAIMS May 9, 2001

(See the Secure Server Version)

DISPOSAL STATUS

8W59, 8W62 AND 8W71 = 7,987

LARGER DEMIL USERS:

NAVOCEANO   = 2,853

MISAWA   =   952

ROSEVELT ROADS   =   635

GUAM   = 1,113

FISC PEARL HARBOR = 1,072

FISC NORFOLK   = 2,817

ATR REPORTING

- Visualize CAIMS as the Navy's checkbook

- Submission of ATR's keeps the checkbook in balance by making deposits (Receipts) and withdrawals (Issues/Expenditures)

- Non-Submission of ATR's creates an out of balance checkbook (Intransits)

- Fleet must recognize the importance of reporting to CAIMS to ensure Inventory Accuracy is maintained to meet the Warfighter's requirement

SONOBUOY REPORTING

17 May 2001

COMMOM ROLMS/ATR ERRORS

- 31/32 Error Codes: Issue/Receipt to a non-reporter.
    - Must reverse original transaction out of ROLMS and re-submit transaction with a valid reporter in the supplementary address.

- Offline manipulation: Submit an offline manipulated ATR to CAIMS.

THIS SHOULD NEVER BE DONE

When manipulation takes place, ROLMS and CAIMS ATRs do not match.

Human intervention must take place to correct errors.

COMMON ROLMS/ATR ERRORS (CONT.)

- FORMAT ERRORS: ATR Kickback errors from CAIMS that were never retransmitted.

  – ATR kickback errors must be retransmitted with assigned CAIMS error sequence number within 90 days.

  – ATR kickback errors not resolved within 90 days must be retransmitted on the next sequential ATR

NCEA STATISTICS

NCEA MONTHLY EXPENDITURE REPORTS

Compile Monthly expenditures by totaling
all sub-allocated units' expenditures.

(See the Secure Server Version)

Retail Ordnance Logistics Management System (ROLMS)

812-854-5094, DSN 482-5094

Sonobuoy Logistics Working Group

17 May 2001

Sonobuoy 2D Barcode Initiative

17 May 2001

Sonobuoy 2D - Overview

- ## Background
  - Problems/Issues
  - Sonobuoy Identification
  - Additional Findings
  - Solution
- ## Prototype and Results, Benefits
- ## Sonobuoy 2D Label
- ## Sonobuoy Processes, Software
- ## Status

Sonobuoy 2D – Problems/Issues

- Sonobuoy stockpile decreasing
- Inaccurate Inventory Management
  – Errors in Fleet reporting
  – Shipping documents (DD1348s) not matching transactions reported
- Cumbersome procedures
  – Accountability of Sonobuoy movement
  – Inconsistent reporting to CAIMS
- Identification of Sonobuoy assets

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Sonobuoy 2D – Sonobuoy Identification

- # TYPE: SSQ-57
  - ## 8W60(A)
    - ### 31 NIINs (1 Channel per NIIN)
      - Lot Numbers
  - ## 8W73(B)
    - ### 31 NIINs (1 Channel per NIIN)
      - Lot Numbers
- # TYPE: SSQ-62
  - ## 6 NALCs, multiple NIINs each

Sonobuoy 2D – Additional Findings

- No capability for Wings and Squadrons to scan current barcodes
- Difficult to access identification data on Sonobuoys (manufacturer, year, lot, etc.)
- Limited tracking of lot data
- Systems do not easily accommodate the constant movement of Sonobuoys
- End-users eager for improvements

Sonobuoy 2D – Solution

- **Simplify Sonobuoy inventory management utilizing COTS Automatic Identification Technology (AIT)**
  - More efficient labeling/tagging of Sonobuoys
  - Electronic interface between operator and reporting system (Retail Ordnance Logistics Management System, ROLMS)
  - System generated shipping documents (DD-1348s) by document number and NIIN

Sonobuoy 2D – Prototype and Results

- # Prototyped at PATWINGSPAC May 1998
  - – PPT4600 Scanner
  - – Codewriter 4102 Printer
  - – 2D Barcodes

- # ATR reflected following adjustments:
  - – 24% decrease due to previously unreported Expenditures
  - – 1% increase due to Gains by Physical Inventory
  - – Total # of buoys changed from 9,705 to 7,492

- # 25% improvement in inventory to record accuracy with AIT and ROLMS
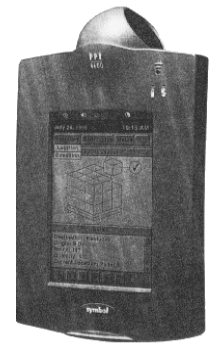
Sonobuoy 2D – Benefits

- ## Automated and improved accountability of Sonobuoy movements, expenditures
  - DD1348s and transactions reported to CAIMS match at the NIIN level

- ## Consistent reporting to CAIMS
  - Increased accuracy and confidence in data
  - Improved distribution, requirements planning

- ## Improved inventory accuracy, audit trail
- ## Shipping documents (DD1348s) created correctly via ROLMS

Sonobuoy 2D – Benefits (cont'd)

- **Improved identification of assets**
  - Physical access and availability of Type, NALC, NIIN, Lot # (manufacture, year, lot)

- **Eliminate need for special inventories**

- **Scanning capability at Wings, Squadrons**

- **Reduction in manhours required to maintain records, report to CAIMS, prepare DD-1348s, and resolve intransit mismatches**

Sonobuoy 2D – Label

Linear Labels

012899058 5 A

SPW92G091-049 1199 1

36/12   011465008 5 A
8W59   SSD89A087-024 1

2D Label

Sonobuoy 2D – Encoded Label Information

- **Encoded information contains data elements and the ANSI MH10.8.2 Format Data Identifiers/Codes**

Data Element	Data Identifier
NSN	N
DODIC/NALC	4R
Condition Code	2R
Ownership Code	7V
Unit of Issue	3Q
Lot Number	1T
Serial Number	S
Quantity	Q
MDD/Expiration Date	6D

Sonobuoy 2D – Processes Utilizing AIT

- ## Update Address File for each Squadron
  - Add record and/or Allocation UIC for Squadrons

- ## External Restow function to scan from locker to Squadron and from Squadron back to locker
  - Assets expended or issued will be left in the Squadron "Building" when evolution is complete

- PDT7200 Scanner Application
  - Scan and print 2D bar codes

- Storage Utilization Process (K02)
  - To utilize Squadron UIC as locations

- Bar Code Label Process (G02)
  - To print 2D bar codes

Sonobuoy 2D – Software Modifications (cont'd)

- *New:* Extract Scanner Reference Data (G03)
  - Catalog data for Type, Channel, Unit of Issue, NALC
- *New:* Scanner Reference Data Download (G04)
- *New:* Issue/Expenditure by Location (E20)
  - Processing of multiple NIINs in single transaction
  - Creates unique document numbers for each NIIN

Sonobuoy 2D – Issue/Expenditure Program

Sonobuoy 2D – Issue/Expenditure Program (cont'd)

Sonobuoy 2D – Issue/Expenditure Program Report

```
                        N00001/NAS SONOBOUY SITE
Date 00048            Issue/Expenditure By Location        Time 11:45:32
                         Sorted by NALC, NIIN/CC


NALC      NIIN       Cog Owner   ACC C/C    Document Num       Quantity


XXXX    XXXXXXXXX   XX    X       X   X    XXXXXXXXXXXXXXX    XXXXXXXXX
XXXX    XXXXXXXXX   XX    X       X   X    XXXXXXXXXXXXXXX    XXXXXXXXX
XXXX    XXXXXXXXX   XX    X       X   X    XXXXXXXXXXXXXXX    XXXXXXXXX
XXXX    XXXXXXXXX   XX    X       X   X    XXXXXXXXXXXXXXX    XXXXXXXXX
XXXX    XXXXXXXXX   XX    X       X   X    XXXXXXXXXXXXXXX    XXXXXXXXX


                        >>>END OF REPORT<<<
```

Sonobuoy 2D – Status

- # NAVAIR PMA-264 has procured AIT equipment
  - PDT7200s, PT400 Barcode Printers
  - 21 Activities (half are Wings, half are Squadrons)
- # Implementation ongoing
  - 29 Jan: Keflavik Iceland - Completed
  - 12 Feb: Sigonella Italy - Completed
  - 04 Apr: Kadena and Misawa Japan - Completed
  - Then: Jacksonville FL, San Diego CA, Whidbey Island WA, Brunswick ME, Diego Garcia, Roosevelt Roads

Retail Ordnance Logistics Management System (ROLMS)

17 May 2001

ROLMS FY01 accomplishments

Activity Support:

- *OIS Configuration Control Board*	*Oct 00*
- *CSD for Full Level help calls*	*Dec 00*
- *Query/Browser CBT*	*Apr 01*
- *ROLMS DBA tool to assist in maintenance, corrections*	*Apr 01*

ROLMS FY01 accomplishments (cont'd)

Activity Support (cont'd):

- OIS Configuration Control Board   Apr 01

- ROLMS Advanced Course Drafted   Apr 01

- Web Posting of Application Updates   Apr 01

- Web Posting of NAR/AIN/OHF Updates   Ongoing
  (Formatted for ROLMS upload)

- Customer Support Desk   Ongoing

- Fleet School Course Support   Ongoing

ROLMS FY01 accomplishments (cont'd)

Deployments:

- Release 5.0 Distribution   Oct 00

- Release 5.1 Beta Test   Oct 00

- Release 5.1 Distribution   Jan 01

ROLMS FY01 accomplishments (cont'd)

Development:

- Release 5.0   Oct 00

  32 New/Updated Applications

  192 Problem Reports Corrected

- Release 5.1   Jan 01

  15 New/Updated Applications

  56 Problem Reports Corrected

ROLMS FY01 accomplishments (cont'd)

Documentation:

- Installation/Upgrade Instructions

    Release 5.0   Oct 00

    Release 5.1   Jan 01

- Release Content List

    Release 5.0   Oct 00

    Release 5.1   Jan 01

Documentation (cont'd):

- Users' Manual

    Release 5.0   Oct 00

    Release 5.1   Jan 01

- Tutorial Guide

    Release 5.0   Oct 00

    Release 5.1   Jan 01

Documentation (cont'd):

- **Fall 2000 Newsletter**   *Nov 00*

- **Winter 2001 Newsletter**   *Feb 01*

- **Quality Assurance Program Plan**   *Mar 01*
  (Draft for ISO 9001)

- **System Security Authorization**   *Apr 01*
  Agreement *(Draft)*

- **Beta Release Software Test Description**   *Apr 01*
  (Draft)

- **Beta Release Software Test Plan** *(Draft)*   *Apr 01*

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ROLMS FY01 workload summary (PTRs, cont'd)
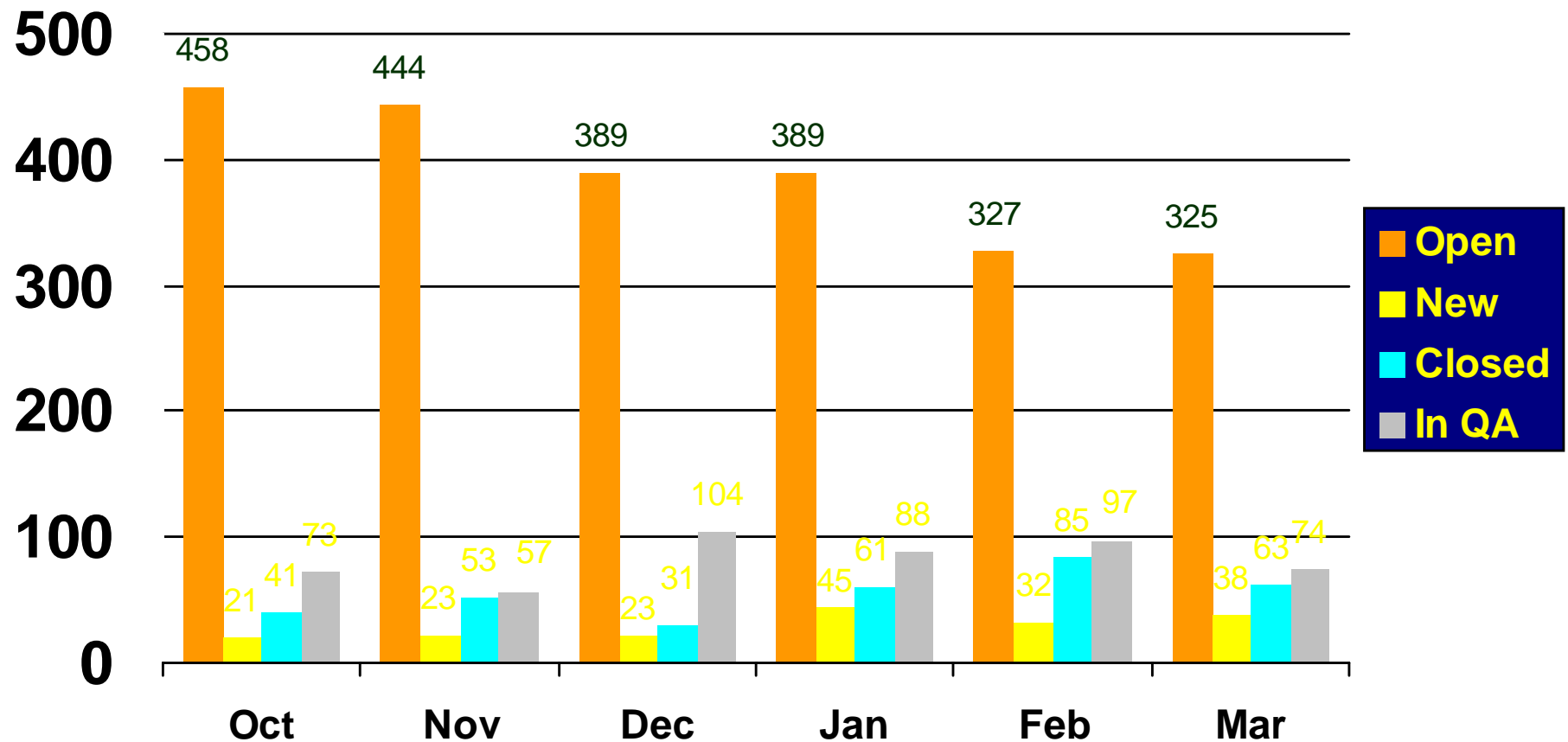
New: 182   **Closed: 334**

ROLMS FY01 workload summary (CSD hours)

134
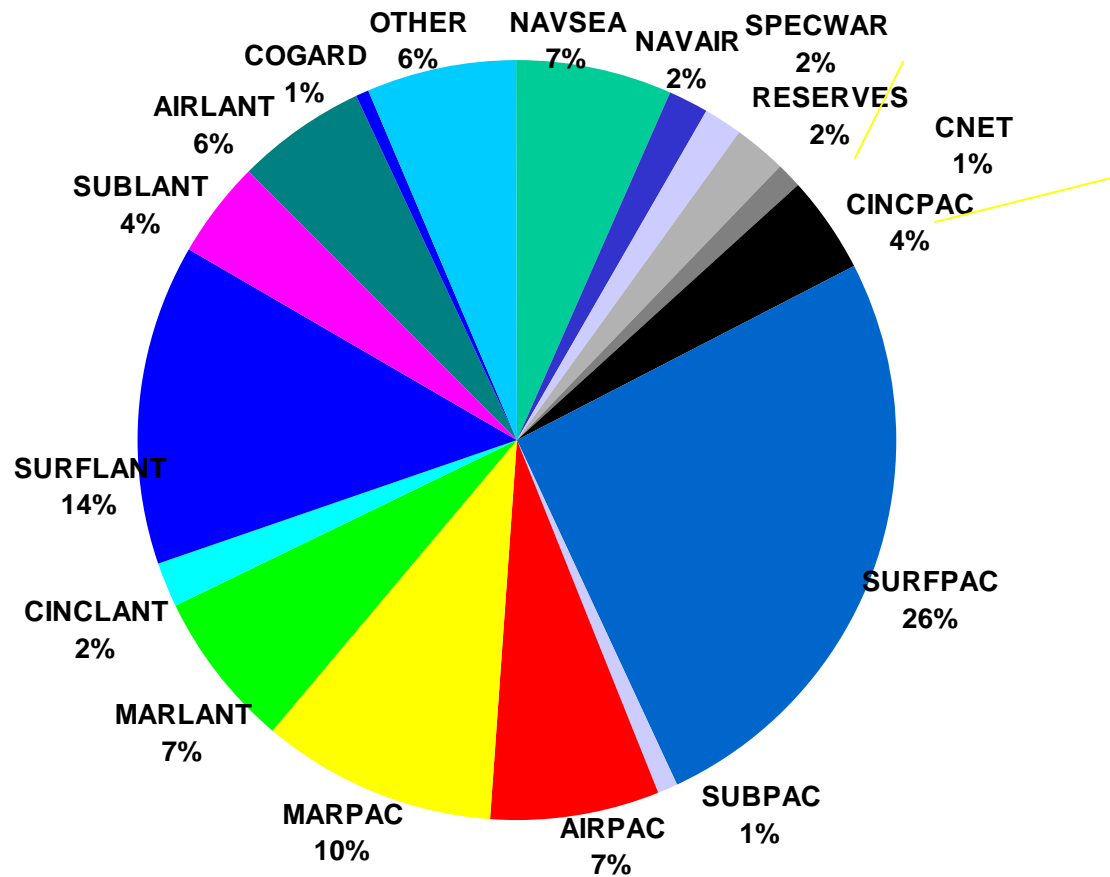
ROLMS FY01 workload summary (CSD calls)
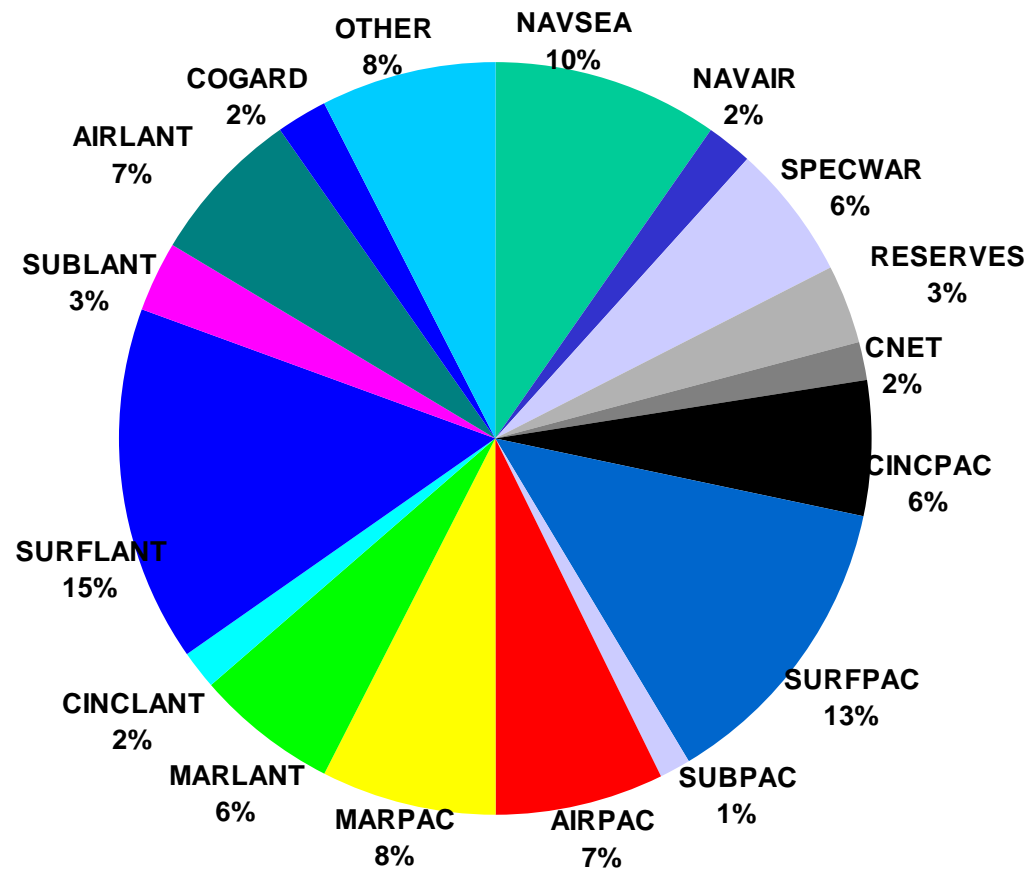
ROLMS FY01 Release Schedule

Release	# Apps	Beta	Distribution
5.0	32	Aug 00	Oct 00
5.1	15	Oct 00	Jan 01
6.0	38	May 01	Jul 01
7.0	41	Jul 01	Oct 01

ROLMS Issues and Concerns

- ## *ROLMS and Oracle 8i Compatibility*
  - *Can no longer procure Oracle 7.3.x*
  - *If sites buy new NT server, must buy Oracle 8i*
  - *Testing current ROLMS applications/ environment against Oracle 8i database*

- ## *Windows ME Workstations*
  - *Currently have only tested ROLMS against Windows 95, 98, NT, 2000 workstations*

ROLMS Issues and Concerns (cont'd)

◆ **Windows 2000 Server**

  – **Currently have only tested and configured ROLMS on UNIX and Windows NT servers**

◆ **Fleet Firewall Policy**

  – **Will limit access to Full Level sites**

ROLMS FY01 Release Contents

Release 6.0	Prog	Version
Safety Related:		
- NAR/AIN/OHF Process	B01	1.008
- NAR Data File Process	B01B	1.003
- NAR/AIN/OHF Overlay	B00B	1.003
- Receipt NAR Notification Rpt	R50	1.010
- Receipt NAR Notification Rpt *(Batch)*	R50B	1.005
- Storage Utilization Discrepancy Rpt	R66	1.008
- Storage Utilization Discrep. Rpt *(Batch)*	R66B	1.009
- Storage Utilization Process	K02	1.023

Release 6.0 (cont'd)

	Prog	Version
Data Integrity Related:		
- Input Inventory Count	C11	1.011
- Scanner Restow	F02	1.017
- Scanner Restow (Batch)	F02B	1.011
- Generate Ship. Prep. Worksheet	E09	1.012
- Issue/Expenditure by Location	E20	1.001
- Scanner Discrepancy Process	G05	1.006
- Deleted Scanner Discrepancies Rpt	R30B	1.001
- Global Edits/Tables	EDIT	Mixed

Release 6.0 (cont'd)

	Prog	Version

Data Integrity Related (cont'd):

	Prog	Version
- Technical Data Process	K03A	1.012
- Data Base File Maintenance	L04	1.006
- Data Base File Maintenance (Batch)	L04B	1.003
- Daily File Transfer Process	L08	1.004
- Receive/Process Incoming Data	L11B	1.004
- PDT7200 Scanner	SCN72	1.003
- PDT3500 Scanner	SCAN	1.008

Release 6.0 (cont'd)

	Prog	Version
Data Integrity Related (cont'd):		
- Scanner Upload	G01A	1.013
- Asset Corrections	L12	1.011
- Asset Maintenance Process	H01	1.022
- Disposal Process	E16	1.007
- Disposal Process (Batch)	E16B	1.005
- Asset Retrieval	M01	1.020
- Lot Asset Summary Retrieval	M01C	1.001
- Document Transaction History	M03	1.020

Release 6.0 (cont'd)

	Prog	Version
Reporting Related:		
- **Generate Reporting Trans.** (Batch)	**J05B**	**1.013**
Other:		
- **Assign Local Routing Code**	**K03C**	**1.003**
- **Allowance/Allocation Process**	**K01**	**1.011**
- **Technical Data Retrieval**	**M18**	**1.011**
- **MDSS Diskette Creation Process**	**M19**	**1.003**
- **Establish Site ACCs**	**K09**	**1.005**

ROLMS FY01 Release Contents (cont'd)

Release 7.0

	Prog	Version

Safety Related:

- Storage Utilization Discrepancy Rpt   R66   1.009
- Storage Utilization Discrep. Rpt *(Batch)*   R66B   1.010

Release 7.0 (cont'd)

	Prog	Version
Data Integrity Related:		
- Generate Daily Transaction Rpt	R80	1.012
- Determine Inventory Requirements	C00	1.010
- Referral/Redistribution Process	E15	1.011
- Referral/Redistribution Process *(Batch)*	E15B	1.009
- Memo Adjustment Form	R35B	1.004
- Address Process	K04	1.011
- Database Backup/Restore	L02B	1.006

Release 7.0 (cont'd)

	Prog	Version
Data Integrity Related (cont'd):		
- Technical Data Process	K03A	1.013
- Barcode Label Process	G02	1.008
- Extract Scanner Reference Data	G03	1.003
- Scanner Reference Data Download	G04	1.002
- PDT7200 Scanner	SCN72	1.004
- PDT3500 Scanner	SCAN	1.009
- DD1348 Print Process	E08P	1.027

Release 7.0 (cont'd)

	Prog	Version
Data Integrity Related (cont'd):		
- Excess Status Process	D03	1.014
- Excess Status Process (Batch)	D03B	1.005
- Maintain Site Information	L01	1.010
- Receipt File Transfer Process	A10	1.015
- Inventory Verification Process	C04A	1.014
- Asset Maintenance Process	H01	1.023
- Inventory Adjustments Gain Process	C05C	1.023

Release 7.0 (cont'd)

	Prog	Version
Data Integrity Related (cont'd):		
- Issue Process	E01	1.021
- Generate Ship. Prep. Worksheet	E09	1.013
- Ship. Prep. Worksheet Print Process	E09P	1.009
- Scanner Receipts	A07	1.004
- Scanner Receipts *(Batch)*	A07B	1.005
- Outgoing FTP Process	L05	1.003
- Material Correction Notification	R45B	1.003

Release 7.0 (cont'd)	**Prog**	**Version**
Data Integrity Related (cont'd):		
- Local Action Code Process	K06	1.001
- Open Reservation Retrieval	M28	1.010
- Material Movement Process	F05	1.004
- Shipment Release	E17	1.006
- Global Edits/Tables	EDIT	Mixed

Release 7.0 (cont'd)	**Prog**	**Version**
Reporting Related:		
- Generate Reporting Trans. *(Batch)*	J05B	1.014
- TIR Assessment	R85B	1.002
- Periodic Lot Reporting	J02C	1.010
- Generate ATR Retransmittal	N03	1.014
- Generate TIR/SLIT Retransmittals	N10	1.005
- Generate Daily Transaction Rpt *(Batch)*	R80B	1.002

MOBILE FLEET SUPPORT TEAM

M F S T

NAVAL AMMUNITION LOGISTICS CENTER

USN

Retail Ordnance Logistic Management System Mobile Training

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The MFST Members are ...

Program Officer:
Program Lead Trainer:
Training Personnel: **1 GS Personnel**
                            6 Contractors
                            2 GS NALO
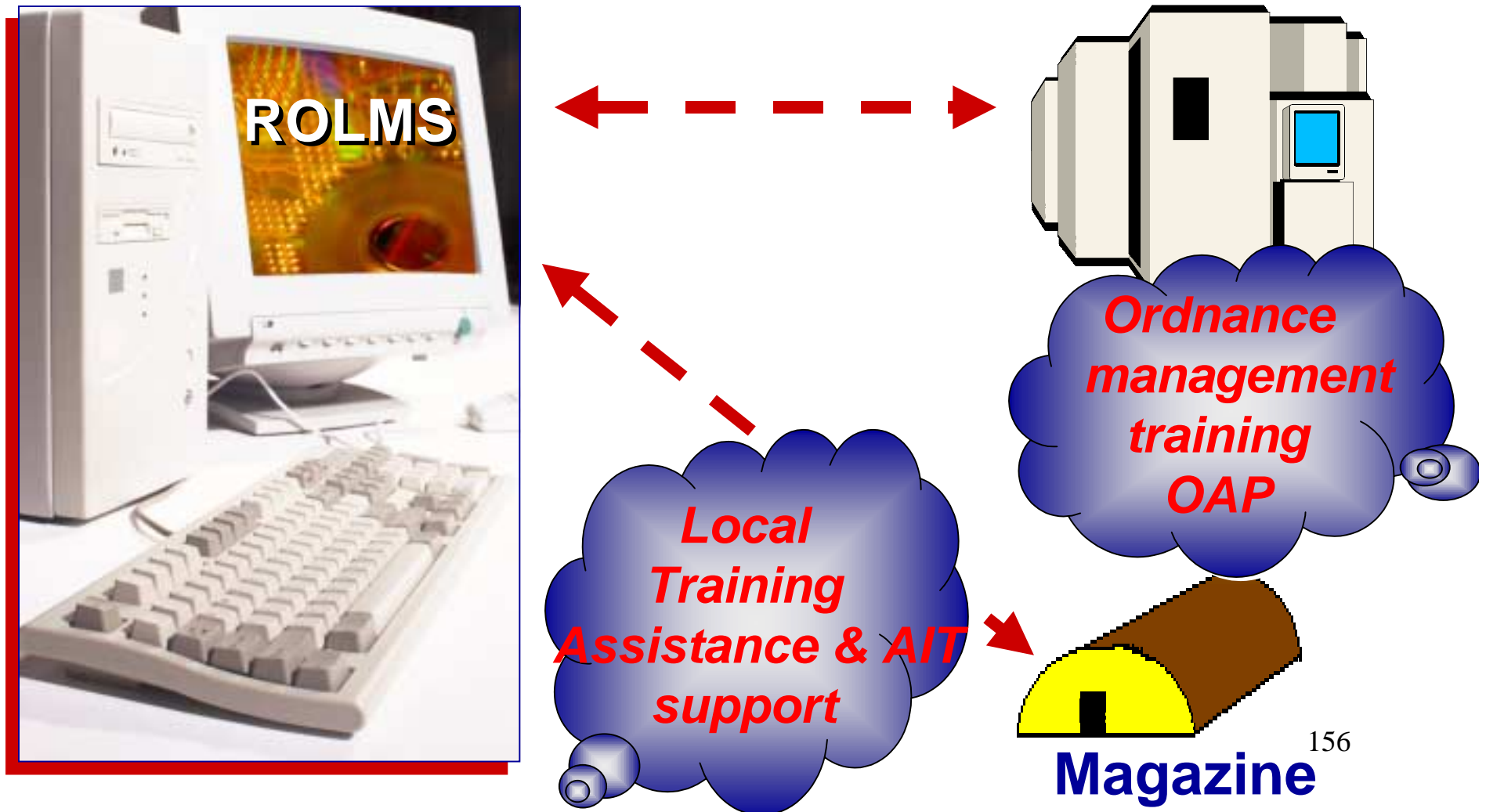
Note: CACI & CSC are providing the contract personnel.

TRAINER LOCATIONS

Bremerton, WA
Work Load Dependent

Norfolk, VA

San Diego, CA

Mayport, FL

Pearl Harbor, HI

Pasagula, MS
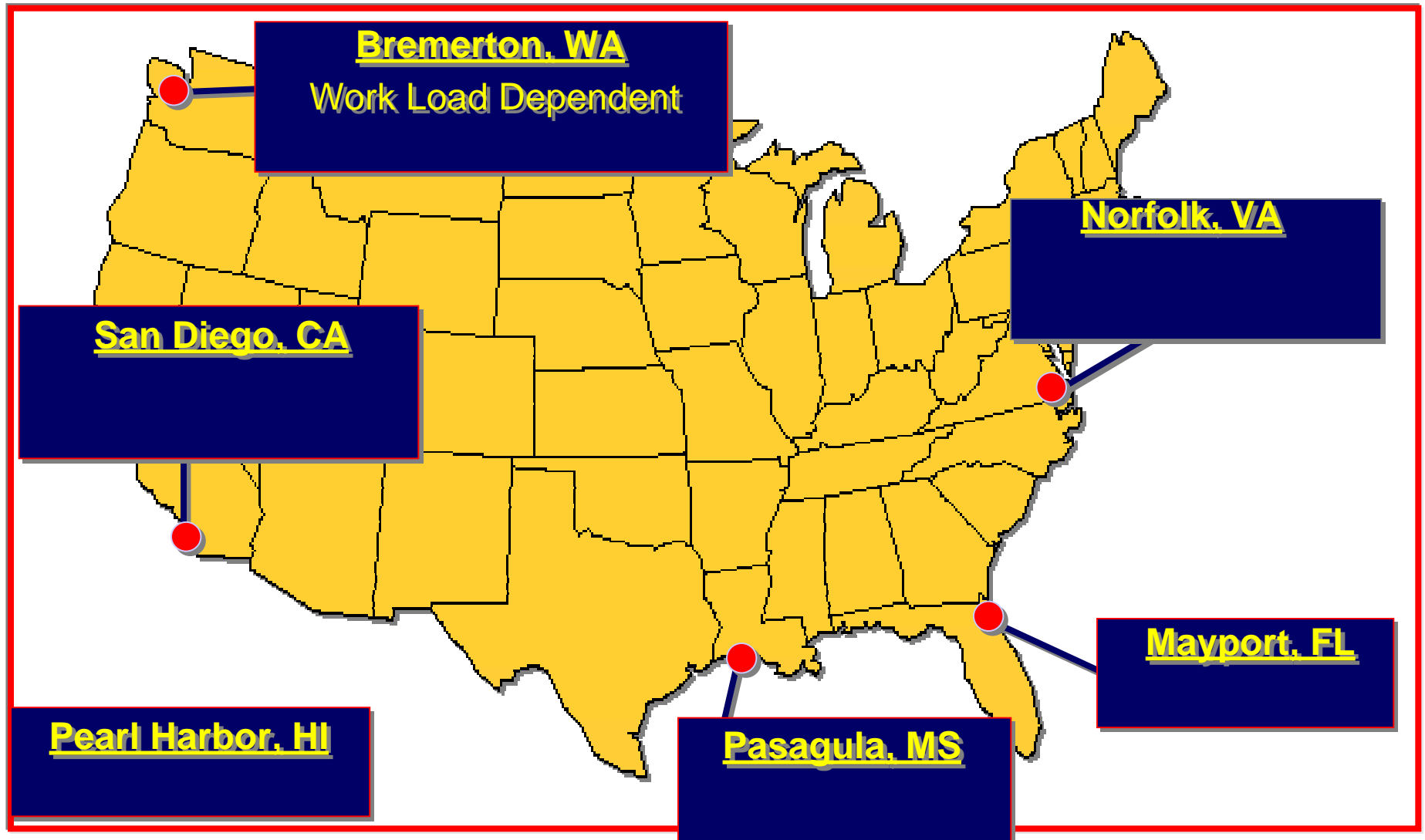
Training Specifics

- **Local Water Front Training...**
  - **Provide real-time, one on one training.**
    - Utilizing 27 + 5 ROLMS training modules.
    - Utilizing AIT training modules PDT 3500 & 7200.
    - Future CAIMS / OIS training.
  - **Local hardware / software support.**
    - Work in conjunction with the ROLMS support desk, conserve travel $'s where possible.
  - **Training on OAP metrics.**
    - Teach leadership how to monitor their activities.

What training do we provide!

CAIMS

ROLMS

Ordnance management training OAP

Local Training Assistance & AIT support

Magazine

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Where do we Train

On Target Training

- **Fleet Concentration Areas.**
- **Training at the activity.**
- **Training in classrooms.**
- **Training in remote areas "Mobile"!**
- **Training / assistance at sea if required.**

Distance Support Anchor Desk

www.AnchorDesk.navy.mil

Distance Support
Anchor Desk

Mobile Fleet Support Team Support Request

Directions: To forward your Mobile Fleet Support Team (MFST) support request to us, fill out the appropriate information in each section and then click on the "SUBMIT" button at the bottom of the page. An automated e-mail notification will be sent to you indicating that your request has been received. An MFST member will contact you shortly thereafter to discuss your request.

Send questions/comments to: **Anchor Desk** or call 1-877-4-1-TOUCH (86824).

Request No.: MFST-00051
Request Date: 03/23/2001

Section 1: Complete Activity Information (Fields in RED are mandatory)

Activity Name: [_____]   UIC: [_____]

Commercial Phone: [_____]   POC Name:

DSN Prefix: [____]   First [_____]

FAX: [_____]   Last [_____]

E-mail: [_____]   Nearest Location:

                                                    [--- SELECT ONE --- ▾]

Section 2: Select the Training Desired:

Retail Ordnance Logistics Management System (ROLMS):   ○ Yes ● No

AIT(Scanners / Printers):   ○ Yes ● No

Ordnance Assessment Portfolio (OAP):   ○ Yes ● No

Other: (If Other, provide comments below)   ○ Yes ● No

[_____]

MFST Needs!

•Additional MFST requirements:

- • Cellular Phones (Being Procured)
- • Projectors for Training
- • SIPRNet Access

Sonobuoy Management Team

Status Report for SLWG

17 - 18 May 2001

Management Team

- CAIMS Accuracy & Fleet Reporting have been major subjects at SLWG and other meetings since 1990
  - SLWG meets twice a year
    - Representatives from TYCOM, CINC, Squadron, DLA, NALC, AMMO's, PMA, and other Fleet entities
  - N411 / ASN(RD&A) Sonobuoy Management Initiative meetings in 1995 & 96
    - Representative from TYCOM, CINC, NALC, PMA and other Fleet entities
  - PMA-264 Production IPT meetings
  - CAIMS/ATR Subcommittee of SLWG meetings in 1998 & 99
    - Chartered '**Sonobuoy Management Review Team**'

Sonobuoy Management Review Team

- Chartered by Sonobuoy Liaison Working Group (SLWG) in the October 1998 session.
  - Endorsed by CINCPACFLT and CINCLANTFLT as well as various TYCOMs and PMA-264
  - Endorsed by NAVORDCEN IMSD at the January 1999 meeting of the CAIMS/ATR Working Subcommittee of the SLWG
- Purpose: Inspect ammunition transaction reporting processes and reconcile CAIMS accounts at selected sites. Gauge accuracy of CAIMS inventory database for sonobuoys. Improve reporting through reconciliation and training.

'Reconciliation' & ROLMS Assistance Provided 99-01

- **NAVSTA Roosevelt Roads (2)**
  - Weps
  - COMNAVSO (UNITAS)
  - TSC
- **PATRECONWING ONE**
  - Det Kadena & CFAO
  - Det Misawa & Weps
- **TSC Keflavik**
- **NAVO Bay St Louis**
- **PATRECONWING ELEVEN**
  - 3 VP Squadrons
- **PATRON 30**
- **USS CAMDEN**
- **USS Harry S Truman**
- **AIRTEVRON ONE**
- **COMSEACONWING PAC (4 Sqdn)**
- **NCWGRU TWO**

- **NAS Sigonella**
  - CTG 67.1 / PATRON Sig
- **COMHSLWINGLANT (2)**
- **COMVAQWINGPAC**
- **COMSEACONWING LANT (4 Sqdn)**
- **VP-92, VP-69, VP-62, HS-75**
- **PATRECONWING FIVE**
  - 4 VP Squadrons
- **MCBH Kaneohe Bay**
  - COMPATRECONFORPAC
  - 4 VP Squadrons, HSL-37
  - MALSEK
- **COMPATRECONWING TEN**
  - 4 VP Squadrons
- **NAS North Island**
  - CPRFP Det (TSC)
  - CHSLWP (2)

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Host Reporting

- Per input to the SLWG and TYCOM/Wing direction the Management Team facilitated 'Host/Wing Level' reporting at numerous sites:
  - **COMPATRECONWINGSPAC**
    - Consolidated 5 reporters to 1: MALSEK Kaneohe Bay
  - **COMPATRECONWING ELEVEN**
    - Consolidated 7 reporters to 4: VP-62 , HS-75, VP-30, CPRW-11
  - **COMPATRECONWING TEN**
    - Consolidated 5 reporters to 2: CPRW-10, VP-69
  - **COMPATRECONWING FIVE**
    - Consolidated 5 reporters to 2: CPRW-5, VP-92
  - **COMSEACONWINGPAC & LANT**
    - Consolidated 9 reporters to 2: CSCWL & CSCWP
  - **COMHSLWINGLANT & PAC**
    - Consolidated 9 reporters to 2: CHSLWP & CHSLWL
  - **COMVAQWINGPAC**
    - Consolidated 15 reporters to 1: COMVAQWINGPAC
  - **COMNCWGRU TWO**
    - Consolidated 14 reporters to 1: NCWGRU 2

Non-Sonobuoy Specific Efforts

- As requested & (sometimes) funded by various TYCOMs, the Team has assisted some activities that are not strictly sonobuoy-related:
  - **USS Camden**
    - In conjunction with the team's visit to CPRW-10, it assisted the USS Camden (AOE-2) in clearing her intransits & OOB's prior to her 1999 deployment. This visit was conducted at the Camden's request
  - **USS Harry S Truman**
    - AIRLANT requested the team assisted the USS Truman in reconciling her account prior to her first deployment
  - **COMVAQWINGPAC**
    - AIRPAC requested the team assist CVAQW in clearing intransits and reconciling its account due to shore Det operations in Europe, the Balkans and Saudi Arabia

ROLMS AIT

- In support of SLWG Action Item 99-13, the Program Office bought ROLMS AIT system hardware & software for major sonobuoy-reporting sites.

- Since the beginning of FY 01 the Team has installed AIT systems and provided training to:

  - **TSC KEFLAVIK, IC**
  - **PATRON SIGONELLA, IT**
  - **COMPATRECONWING TEN**
  - **PATRECONWING ONE DET KADENA**
  - **PATRECONWING ONE DET MISAWA**

ROLMS AIT in use successfully at these sites

 - **COMPATRECONWINGSPAC DET NORTH ISLAND**
   - **Installed this week**

Based on experiences in the first three sites, the Team submitted a number of SCR's to the ROLMS office that identify deficiencies in ROLMS AIT software.

ROLMS AIT

- Sites that will be visited by the Team for ROLMS AIT installation during the remainder of FY 01 include:

  - **COMPATRECONWING ELEVEN (Jun)**
  - **COMPATRECONWING FIVE (Jul)**
  - **PATRECONWING ONE DET DIEGO GARCIA (Aug)**

  - **Other sites as schedule permits:**
    - **DDNV Norfolk (Sep ?)**
    - **AUTEC (Oct)**
    - **TSC Roosevelt Roads (?)**
    - **FISC San Diego (?)**

ROLMS AIT

- Visits include:
  - Reconciliation of local ROLMS account with CAIMS
  - Installation of current ROLMS version & AIT System
  - 2D Bar Coding of assets
  - Demonstration of 'Inventory' and 'External Restow' processes
  - Training, Training, Training, Training

- Team created a 'Sonobuoy ROLMS AIT User's Manual
  - Posted on the Sonobuoy Web Page
  - To be included in the new ROLMS AIT CBT
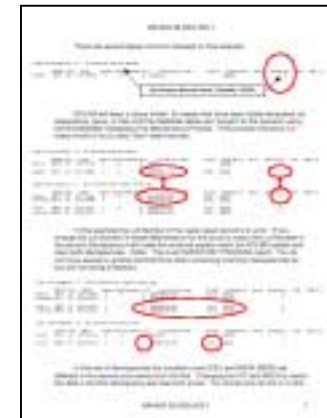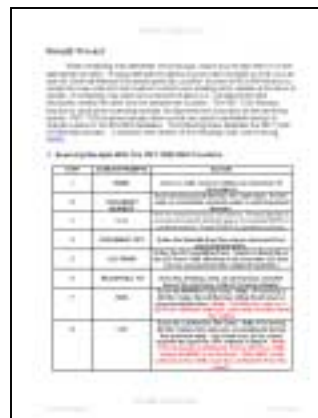
Team is 'Beta' tester for ROLMS V6.0

ROLMS AIT

- Sites that have been equipped with ROLMS AIT by the Team are very happy with the product and using it successfully
- Other sites that have been equipped with ROLMS AIT through other organizations are looking for assistance in installation
  - **CFAO Kadena Weapons**
  - **NAF Misawa Weapons**

- Anticipate that accuracy of reporting will continue to be high at site the Team equipped and trained
  - PATRON Sigonella may be a problem in the future
    - Requires visit by Team every six months (PATRON turnover)
    - Obsolete & barely capable Computer & Printer (A.I. 01-07 applies)

- What's it good for? -Will result in accurate PLR data from the major users thereby facilitating outyear procurement decisions

Production Logistics

Crane Division,
Naval Surface Warfare Center

Crane Division, Naval Surface Warfare Center (Code 6074)

- Cognizant Field Activity: Logistics, Engineering & Contracting
  - Contract for new production
  - Engineering Qualification to the performance specification
  - Engineering test for new production
  - In-service logistics support
- Assistant Program Manager for Logistics
  - Sonobuoy Management Team (ROLMS/AIT/Inventory Accuracy)
  - Tech Data (IETM, Web, source data)
  - Training (ROLMS AIT/Ammo Management/Technical)
  - Trouble Desk / Fleet Liaison
  - Stockpile surveillance / Service Life extension / NAR's
  - Formal ILS

Assistance / Help

- **Unrestricted Web Site**
  - http://sonobuoy.crane.navy.mil
    - General Sonobuoy Program Data
    - News, current issues, IETM errata
    - ROLMS AIT Users Manual

- **Secure Web Site**

  (See the Secure Server Version)
    - Program Management Data
    - Production Sonobuoy Specifications
    - IETM, ASW Sensor, COPE Reports, etc.
    - USERID & Password required

- *Sonobuoy Hotline*: 812-854-3577 DSN 482-3577

Current Extensions

- **Current Sonobuoy Service Life Extensions**
  - **Q36:**
    - NALC 8W59: ALL EXPIRED (NAR 0014-01)
    - NALC 8W74: NSWCC 011855Z NOV 95: 7 YEARS (02)
  - **Q53B:** NALC 8W62: ALL EXPIRED
  - **Q53D:** NALC 8W72: NSWCC 061931Z FEB 98: 10 YEARS (8/00 - 3/03)
  - **Q57B:**
    - NALC 8W70: NSWCC 032301Z DEC 96: ALL EXPIRED
    - NALC 8W73: NSWCC 051705Z MAR 01: ALL EXTENDED TO JAN 02
  - **Q62B:** NALC 8W71: ALL EXPIRED (NAR 0429-00)
  - **Q77A(CZ):** NALC 8W75: NSWCC 131551Z MAR 98: 10 YEARS (5/01 - 3/02)
  - **Q77B:** NALC 8W76: NSWCC 141900Z APR 98: 10 YEARS (12/01 - 12/04)
  - **Q86:** NALC 8W68: NSWCC 281920Z FEB 01: 6 YEARS (6/01 - 2/02)
  - **Q110:** NALC 8W77: NSWCC 041505Z JAN 00: 7 YEARS or OCT 02 (8/99 - 12/03)

Recent Messages

(Posted on Web Page)

- **NAVSURFWARCENDIV CRANE 031842Z JAN 01:** Fleet introduction of the AN/SSQ-62E sonobuoy.

- **NAVSURFWARCENDIV CRANE IN 281920Z FEB 01:** Service Life extension for all AN/SSQ-86 DLC buoys to Six years.

- **NAVSURFWARCENDIV CRANE IN 051700Z MAR 01:** Notification of impending expiration of SSQ-53D and SSQ-77A(CZ) sonobuoys. Use first.

- **NAVSURFWARCENDIV CRANE IN 051705Z MAR 01:** Service Life extension for all SSQ-57B sonobuoys until January 2002.

- **NAVSURFWARCENDIV CRANE IN 061112Z MAR 01:** Service Life extension for 8W77, SSQ-110 until October 2002 for units expiring before then.

- **NAVSURFWARCENDIV CRANE IN 061431Z MAR 01:** Recapitulation of all sonobuoy Service Life extensions.

NCEA Tracking

- Receive and track ATR's from Fleet sonobuoy users
  - Maintain expenditure tracking data against NCEA
    - PACFLT & LANTFLT Major Claimancies
    - Other organizations
  - Liaison with ROLMS operators
    - Detect & correct erroneous reporting practices as occur
    - Praise correct reporting practices
  - Liaison with Fleet Managers
    - Provide 'Ground Truth' (from the ATR) expenditure data
    - Advise if under-executing or over-expending
  - Report to Program Manager
    - OPNAV
    - PMA-264
  - Liaison with NALC IM
    - Resolve differences in ATR vs Roll-Up

NCEA

- Current NCEA Expenditures:

(See the Secure Server Version)

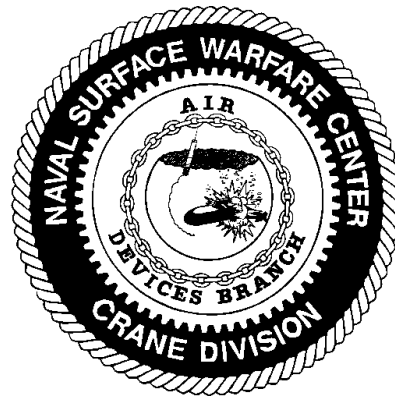| |
|---|
| **Data as of 3 May 01 for Crane ATR tracking, 6 May 01 for CAIMS. Represents ATR reported expenditures against the NCEA for PACFLT and LANTFLT Major Claimancies with 58.3% of FY expired.** |

'AFTER ACTION' REPORT

NAWCAD Patuxent River

SLWG

Sonobuoy Engineering

Crane Division,
Naval Surface Warfare Center

AN/SSQ-53F vs AN/SSQ-53E

- Both use EFS
- Same RF channels
- Same Life, Depth, and AGC settings
- Q-53F has a Calibrated Omni (CO) sensor
- Both are CFS capable
  - Change RF channel, Life, AGC, and Sensor

AN/SSQ-53F

- The AN/SSQ-57C is the exact same hardware as the AN/SSQ-53F.

(See the Secure Server Version)

AN/SSQ-53F CO Response

(See the Secure Server Version)

AN/SSQ-62E vs AN/SSQ-62D

- Both use EFS
- Same RF channels
- Same Life and Depth settings

(See the Secure Server Version)

- Both are CSG capable
  - Change Depth
  - Ping type and duration
- Q-62E is CFS capable
  - Change RF channel, Depth, and Sonic channel

AN/SSQ-62E

(See the Secure Server Version)

AN/SSQ-62E cont

(See the Secure Server Version)

ADAR AN/SSQ-101

- Overview
- Functional Description
- EFS
- Deployment
- CFS

ADAR Overview

- **A**ir **D**eployable **A**ctive **R**eceiver
- NALC: 8W85
- NSN: 8U-5845-01-453-8699
- Part of Improved Extended Echo Ranging (IEER) system for large area, multi-static search
  - Source: AN/SSQ-110
  - Receiver: ADAR

ADAR Functional Description

(See the Secure Server Version)

ADAR Functional Desc (Cont'd)

(See the Secure Server Version)

ADAR Functional Desc (Cont'd)

- ADAR RF bandwidth
  - RF Channel Allocations

(See the Secure Server Version)

ADAR Functional Desc (Cont'd)

- RF Channel Allocations Examples

(See the Secure Server Version)

ADAR Functional Desc (Cont'd)

(See the Secure Server Version)

ADAR EFS

(See the Secure Server Version)

ADAR Deployment

- Deployment Sequence Diagram
- Deployment Video

(See the Secure Server Version)

ADAR CFS

- CFS same as other buoys except
  - No acknowledgement signal sent back up to aircraft
  - Increased CFS Recvr sensitivity extends command range (Several RF channels settings reduce CFS command range)

ADAR CFS (Cont'd)

(See the Secure Server Version)

Review / Discussion
New Action Items